JULIUS M. KELLY

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SUMMARY

Dynamic and highly skilled Senior Full Stack Developer with decades of experience in designing, developing, and delivering innovative web applications and software solutions. Proven track record of leading cross-functional teams and collaborating with stakeholders to drive project success. Adept at translating complex business requirements into scalable, efficient, and user-friendly systems. Proficient in a wide range of programming languages, frameworks, and technologies, with a strong commitment to staying updated with industry trends. Adept at leveraging cutting-edge technologies to streamline processes, enhance performance, and drive innovation. Excels in problem-solving, optimizing performance, and ensuring the highest standards of code quality and security. Seeking opportunities to leverage my expertise in full stack development to contribute to cutting-edge projects and drive business growth.

● EXPERTISE

□ = certified

- Cloud Architecture & DevOps □
- IAM Federation / Migration / Policy
- CMS Admin / Engineer □
- RDB Admin / Optimization
- Terraform IAC Engineer □
- API, Microservices, & GraphQL Engineer □
- OpenSearch Admin / Optimization
- Agile Development & Leadership
- Asp.Net Core C# & Java - Architect □
- Angular & ReactJS Engineer
- Kubernetes, Docker

PROFESSIONAL EXPERIENCE

Lead / Sr. Full Stack Developer | Cloud Architect | Terraform Dev | OpenSearch Architect | Automation | DB Admin

Avant-Garde Global LLC	**Principal Technology Consultant**
Long Beach, CA	11/2009 to Current

Designs, develops, and maintains web applications, both front-end and back-end, using a variety of programming languages and technologies. Assesses client needs, creates cloud migration strategies, and provides recommendations for cloud services (e.g., AWS, Azure, and Google Cloud). Designs and implements Terraform templates in deploying infrastructure in a consistent and repeatable manner. Configures and integrates CI/CD tools such as Jenkins, GitLab CI/CD, or Travis CI. Creates and manages automated testing and deployment scripts. Implements front-end, using Angular, ReactJS, NodeJS, and View.

Notable Selected Projects:

Sunlife Insurance (Insurance)	**DevOps Cloud Engineer / Sr. Developer**
Sept 2023 - Current	Contractor - Remote

Tech Proficiencies

- ○ Python, NodeJS
- ○ Powershell
- ○ Azure Pipeline
- ○ Azure Release
- ○ Azure Functions, SQL
- ○ GIT Lab
- ○ CICD/DevOps
- ○ Asp.Net Core 6.0
- ○ AWS Lambda
- ○ AWS CloudFormation
- ○ AWS API-Gateway
- ○ AWS IAM, Cognito

- Designed and implemented secure and scalable APIs using Azure API Gateway (or AWS API Gateway) and robust authentication through Active Directory (or AWS IAM/Cognito) for seamless integration between Sunlife's internal and external systems.
- Developed automated scripts using Python, Powershell, and Yaml s to automate repetitive tasks at Sunlife, boosting team efficiency by over 15%.
- Facilitated efficient API testing at Sunlife through the use of Postman and Swagger, ensuring the reliability and functionality of our APIs.
- Established an automated infrastructure provisioning process using Azure DevOps, AWS CloudFormation, Yaml templates, and GIT at Sunlife, reducing manual configuration time by 20% and improving infrastructure consistency.
- Spearheaded the implementation of a comprehensive CI/CD pipeline using GitLab, streamlining Sunlife's development process and ensuring consistent, high-quality deployments.
- Designed and implemented secure and scalable APIs using Azure API Gateway (or AWS API Gateway) and robust authentication through Active Directory (or AWS IAM/Cognito) for seamless integration between Sunlife's internal and external systems.
- Developed a script that packaged the backend microservices as Docker containers. Policy creation, claims processing, and api configurations.
- Defined declarative configurations using YAML files to manage deployments, services, and ingress for accessing the application.

	○ AWS DynamoDB
	○ SQL, PostGres
	○ SQL Procs / UDF
	○ AD, SAML, ADFS
	○ React
	○ Rest API, OAuth 2
	○ Postman, Swagger
	○ Docker, Kubernetes

Vail Resorts (Hospitality) — **Lead Developer**

Feb 2023 - Sept 2023   Contractor - Remote

Tech Proficiencies

- Architected, implemented, secured, and configured API services leveraging Mulesoft, OAuth 2, Asp.Net Core, and Azure Cloud
- Led initiatives to optimize poor performing Postgres and SQL database tables, utilizing SQL Profiler, Prometheus, and other tools to analyze, assess, and develop performance optimization strategies. Resulting in query performance increases of over 45%.
- Created comprehensive Postman collections for multi-environment QA testing, ensuring thorough validation of various API endpoint groups.
- Developed sophisticated test scripts, including auto-authentication and variable randomization code, within the Postman testing framework.
- Successfully diagrammed and implemented AD to Azure AD federation using ADFS, meticulously configuring SAML for Single Sign-On (SSO) to enhance authentication processes.
- Spearheaded a team effort to upgrade API security protocols from OAuth to the more robust OAuth 2.0 framework, enhancing data protection and access control.
- Executed rolling updates for applications through Kubernetes, systematically replacing older pods with new ones to maintain uninterrupted service availability. Conducted timely rollbacks in the event of issues, ensuring application reliability and minimizing downtime as a Lead Developer.
- Leveraged MuleSoft to streamline API development, integration, and management, orchestrating data flows to connect disparate systems. This ensured seamless communication between applications while optimizing efficiency and fortifying data security.

Tech Proficiencies:
- ○ Python, Node, C#, ES6
- ○ Asp.Net Core 6.0
- ○ .Net MVC, Services
- ○ AWS Cloud Formation
- ○ Azure Functions
- ○ Azure SQL, PostGres
- ○ AD, SAML, ADFS
- ○ React, React Native
- ○ Rest API, OAuth 2
- ○ Postman, Swagger
- ○ IAM
- ○ Docker, Kubernetes
- ○ Mulesoft

Google Inc (Technology) — **Lead & Sr. Developer**

Feb 2022 - Feb 2023   Contractor - Remote

Tech Proficiencies:

- Led the development of enhancements and new features for Google's suite of products, including Magic Modules & Compute. Resolved issues and developed solutions for Terraform and Declarative Client Library (DCL) integration. Utilized GCP API documentation and schemas to create solutions for Google's library of modules. Worked with multiple programming languages, including Python, Ruby, Golang, and C#, to develop solutions and automation tools.
- Oversaw the use of issue tracking systems like GitHub, Critique, and Buganizer for project management and issue resolution. Specialized in integrating Google Cloud services with external systems and applications.
- Created custom solutions and connectors to enhance the compatibility of Google services with client requirements. Utilized a variety of programming languages and libraries, including C#, Python, Ruby, and Golang, as needed for integration tasks.
- Led the development of critical components, such as declarative SQL, code generation automation, and YAML templates
- Ensured the scalability, reliability, and performance of internal systems and services. Served as a technical leader

Tech Proficiencies:
- ○ Python
- ○ Ruby on Rails
- ○ C#
- ○ GCP, AWS
- ○ Redis
- ○ Compute
- ○ Rest API
- ○ Postman
- ○ Terraform
- ○ GoLang

- responsible for the architecture and development of developer tools within Google Cloud.
- Managed a team of developers working on various modules and services. Drove the creation of solutions that enhanced developer productivity and streamline integration with Google Cloud services.
- Resolved issues and developed solutions for Terraform and Declarative Client Library (DCL) integration
- Designed and developed APIs leveraging containerization with Docker, orchestrated and managed them at scale using Google Kubernetes Engine (GKE), ensuring high availability, fault tolerance, and efficient resource utilization in a cloud-native environment.

○ GitLab
○ SQL

LexisNexis (Legal / Software)	**Lead Cloud Engineer & Elasticsearch Lead**
May 2021 - Feb 2022	Contractor - Remote

Tech Proficiencies:
○ Python
○ ElasticSearch
○ AWS Glue, Lambda
○ AWS API Gateway
○ Java
○ MS SQL
○ AWS SQS, SNS
○ Axios
○ Cognito
○ ReactJS
○ NodeJs
○ EC2

- Architected and Implemented ETL Pipeline: Spearheaded the design and implementation of a robust ETL pipeline, utilizing Elasticsearch, AWS Glue, SQL databases, SNS (Simple Notification Service), and SQS (Simple Queue Service) to streamline data processing.
- Employed AWS Glue's powerful schema inference capabilities to automatically derive schemas from SQL databases containing JSON data. Transformed and restructured these schemas to align with Elasticsearch indices, ensuring data consistency and compatibility.
- Orchestrated the creation of efficient message queues using AWS Lambda, batching SQL records into SQS messages. This approach optimized data processing and ensured seamless data flow between systems.
- Leveraged AWS Lambda functions to process SQS messages, enabling real-time and event-driven data processing. Designed and configured Lambda functions in Python and Java to efficiently handle SQS messages and perform data loading into Elasticsearch.
- Integrated the ETL pipeline with AWS SNS to enable event-driven notifications and alerts, enhancing system monitoring and alerting capabilities.
- Engineered the solution for scalability and performance, accommodating large volumes of data while maintaining optimal processing speed and responsiveness.
- Implemented data quality checks and validation mechanisms within the ETL pipeline to ensure data integrity, accuracy, and consistency throughout the transformation and loading stages.
- Monitoring and Logging: Established comprehensive monitoring and logging mechanisms, utilizing AWS CloudWatch and Elasticsearch's native monitoring capabilities, to track data processing performance, detect issues, and facilitate debugging.
- Developed a Single Page Application (SPA) using React and employed Axios to seamlessly query and retrieve data from Elasticsearch, enhancing data retrieval efficiency and user experience.

Eli Lilly (Pharmaceutical)	**Lead AWS Engineer & Sr. Developer**
May 2020 - May 2021	Contractor - Remote

Tech Proficiencies:
○ C#
○ Asp.Net Core
○ CSS, Html
○ Javascript
○ Python
○ SQL Server
○ Oracle DB
○ PL-SQL, SQL
○ Rest-API
○ CI/CD
○ AWS Lambda
○ ReactJs
○ NodeJS
○ GitHub
○ Jenkins

- Led a team in leveraging .NET Core and C# to develop robust, scalable back-end services. These services seamlessly integrate with diverse front-end technologies, including HTML, CSS, JavaScript, and front-end frameworks.
- Spearheaded the development and maintenance of custom web apps and software solutions. These solutions harnessed the full potential of the .NET stack, including C#, ASP.NET, and related technologies.
- Designed and managed relational databases, such as SQL Server and Oracle, to establish a strong foundation for critical data handling. This encompassed domains like clinical trial management, drug discovery, supply chain, and pharmaceuticals, covering areas such as drug research, clinical trials, patient records, and manufacturing processes.
- Drove both front-end and back-end development, ensuring a cohesive user experience alongside robust server-side functionality. Led the creation and maintenance of APIs, facilitating seamless integration among diverse systems and data sources at Eli Lilly.
- Demonstrated mastery of RESTful APIs, SOAP, and various integration protocols. Championed AWS Lambda functions, deploying Node.js and Python for serverless tasks and automation.
- Oversaw comprehensive DevOps management, orchestrating CI/CD pipelines through Jenkins CloudFormation and GitHub. Identified and resolved performance bottlenecks, ensuring peak application and database performance, particularly for critical processes like drug discovery simulations.
- Instituted CI/CD pipelines and best practices for automated software deployment and testing. Led efforts in leveraging React and Node.js to create intuitive, responsive, user-friendly interfaces in the front-end domain.
- Demonstrated leadership in crafting tools and applications tailored for data analysis, visualization, and reporting.

KOCH (Tech & Software)
Jan 2020- May 2020

Sr. Developer
Contractor - Remote

- Led a team of three in full-stack development, encompassing both front-end and back-end components of web applications. Employed technologies such as Azure, AWS, .NET, Java, JavaScript, and related frameworks to create feature-rich and responsive applications.
- Developed user-friendly and visually appealing front-end interfaces using HTML, CSS, and JavaScript libraries/frameworks like React, Angular 11, or Vue.js. Configured and maintained build tools such as Maven, Gradle, Grunt, Gulp, Git, SVN, npm, yarn, and boot.
- Built robust server-side logic and APIs using technologies like .NET Core MVC and related frameworks.
- Implemented solutions with the team for API Routing / Gateway. Developed RESTful APIs and microservices in Azure to support data retrieval and manipulation.
- Designed and maintained databases using relational databases like MariaDB, PostgreSQL, and MySQL. Created efficient database schemas, optimized queries, and ensured data integrity.
- Integrated with third-party systems and services through API layer management tools like MuleSoft, TIBCO, Mashery, and Apigee. Ensured seamless communication between internal and external systems.
- Identified and resolved performance bottlenecks in both front-end and back-end components.
- Implemented caching mechanisms with Azure cache for Redis to optimize code and enhance application speed.
- Implemented data streaming solutions using technologies like Kafka, Storm, Hadoop, Spring XD, and Spring Batch. Processed real-time data and enabled data-driven insights.
- Collaborated with DevOps teams to set up and manage Amazon Web Services (AWS) infrastructure, including S3, RDS, EC2, ECS, Lambda, SQS, SNS, DynamoDB, and CloudFormation.
- Implemented and maintained automated testing processes using tools like Selenium, Karma, Mocha, Jest, Cucumber, ATDD (Acceptance Test-Driven Development), and Protractor.
- Utilized technologies like IIS 7.0, JCL Scripts, Docker, Node.js, and JVM languages (Clojure, Java).
- Worked on frameworks like Spring Boot and Hibernate for Java applications.

Tech Proficiencies:
- Azure, AWS
- Java
- JavaScript
- ReactJs
- Angular 11
- Vue.js
- HTML, CSS
- Maven, Gradle
- Asp.NET Core MVC
- MariaDB, PostgreSQL, MySQL
- MuleSoft
- Mashery
- Apigee
- Redis
- Kafka, Hadoop
- Spring XD, Batch
- AWS S3, RDS, EC2, ECS
- AWS Lambda SQS, SNS
- DynamoDB
- CloudFormation
- Selenium
- JCL Scripts
- Docker
- Node.js
- Spring Boot
- Hibernate

NBC Universal (Entertainment)
Jun 2019 - Jan 2020

AWS Cloud Architect & Sr. Developer
Contractor - Remote

- Designed, developed, and maintained touch screen apps (e.g., React, Node.js, GraphQL, TypeScript, Python, AWS).
- Collaborated across teams for live broadcast app requirements.
- Built backend for real-time data visualization, optimized for low latency.
- Managed data pipelines and rapid data updates from multiple providers.
- Ensured top performance for user and viewer experiences.
- Resolved data issues, adapted processes for optimization.
- Stayed current with tech trends in full-stack and live broadcast.

Tech Proficiencies:
- Python
- GraphQL
- React
- NodeJS
- TypeScript
- AWS Lambda
- DynamoDB
- Kinesis
- Firehose
- Java
- CICD
- CloudFormation

Veracity (Consulting)
Jun 2019 - Jan 2020

Cloud Architect & Sr. Developer
Contractor - Remote

Tech Proficiencies:
- AWS/Azure
- Compute
- CI/CD
- CloudFormation
- SQL/DynamoDB
- Kentico
- Dynamics 365
- Kubernetes
- Docker

- Designed cloud solutions (AWS/Azure) for Veracities transportation and smart mobility apps.
- Defined infrastructure needs (compute, storage, networking, security).
- Implemented scalability, high availability, and CI/CD pipelines.
- Managed Infrastructure as Code (IaC) with CloudFormation/ARM templates.
- Automated cloud resource provisioning for efficiency and consistency.
- Collaborated with devs for smooth testing, integration, and deployment.
- Worked with Docker and Kubernetes for containerization and orchestration.
- Managed IAM, security groups, and network access controls.
- Optimized cloud databases (SQL/DynamoDB), responded to incidents.
- On-call for Azure maintenance, ensuring stability and performance.
- Assisted in planning, implementing, and optimizing Azure solutions.
- Customized Microsoft Dynamics 365 applications.
- Kentico development: enhancements, module, templates, navigation, design.

Ephesoft (Technology)
Dec 2018 - Jun 2019

Lead Developer & Cloud Developer
Contractor - Remote

Tech Proficiencies:
- Asp.Net MVC
- Rest API
- Kentico
- LDAP
- MS SQL
- IAM
- Powershell

- Designed and managed the database schema, writes SQL queries, and optimizes database performance. Implemented the server-side logic and database interactions using .NET technologies like ASP.NET Core or ASP.NET MVC.
- Created RESTful APIs for communication between the front-end and back-end components. Developed high-quality software solutions using the .NET stack which involves writing code, debugging, and optimizing applications to meet the project requirements.
- Upgraded Kentico, developed template, documentation, version control configuration, module development, templates, and security setup, and migrated users from LDAP into the system with 3rd party extension and scripts.

Omnicell (Technology)
Oct 2017 - Nov 2018

Lead Developer & Cloud Developer
Contractor - Remote

Tech Proficiencies:
- SQL
- Asp.Net Core C#
- Stored Procedures
- UDF
- Biztalk
- N-Tier Architecture

- Built server-side components using .NET technologies such as ASP.NET Core, C#, and SQL Server. Implemented business logic, and data processing, and ensured data security and integrity.
- Participated in code reviews to ensure that the codebase follows best practices, is maintainable, and meets quality standards. Designed, developed, tested, and maintained software applications using the .NET stack that includes both front-end and back-end development.

Volt Information Services (Staffing)
Jul 2015 - Oct 2017

Sr. Developer & Peoplesoft Engineer
Contractor - On-site

Tech Proficiencies:
- Java
- PeopleSoft
- Fin / HCM
- PeopleCode
- SQL, Oracle
- PLSql
- App Engine
- TFS
- Sailpoint IIQ
- Jquery

- Created an integration solution for the vendor management system, overseeing the enhancement and fine-tuning of the SQL server database. Collaborated with an offshore team in India to oversee resource management and ensure project success.
- Administered the Oracle database to handle a substantial volume of data effectively. Developed web applications and Windows service solutions using a diverse set of technologies, including ASP.Net, C#, JavaScript, and JQuery. Implemented Sailpoint IIQ governance with provisioning, managed TFS, and utilized AWS for development and CI/CD, while also incorporating TFS workflow
- Performed system upgrades and enhancements to Peoplesoft. Architected the plan for data migration to the newer version.

OTHER WORK EXPERIENCE

Walmart   Sr. Developer / Integration Consultant

7/11	Sr. Developer / Consultant
CyberU Inc. (now Cornerstone OnDemand)	Manager of Development
Humanities Dept (UCLA)	Directory of Application Development
Neuropsychiatric Institute (UCLA)	Sr. Developer / Consultant
Law School (UCLA)	Sr. Developer / Consultant

EDUCATION

Bachelor of Arts: International Economics w/ specialization in C++
University of California Los Angeles (UCLA)

Los Angeles
1997

CERTIFICATIONS

- Terraform Certified Associate
- GraphQL Certified Professional
- Kentico Certified Developer
- Ektron Certified Developer
- Sitecore Certified Developer
- Designing and Implementing Databases with SQL
- Microsoft SQL Server 2000 Enterprise Edition
- Microsoft Certified Professional (MCP)
- Microsoft Certified Application Developer C# (MCAD)
- Developing XML Web Services and Server Components with Microsoft Visual C# .NET and the Microsoft .NET Framework
- Developing and Implementing Web Applications with Microsoft Visual C#! .NET and Microsoft Visual Studio .NET
- Developing and Implementing Windows-based Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET

AWARDS & HONORS

- Ektron – 1st place in XSLT / XML based CMS Implementation (https://www.ringling.com/) 2008
- FoodNetwork – Best UI/UX design 2011