**Sathish Kumar
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**Senior Technical Manager (Lead Engineer) – Full stack Developer using C#, .NET Core 6, Angular, Typescript, Bootstrap, Single Page Applications, SQL Server, Dapper ORM, Docker and Auth0 for security**

Work Summary:

**Full stack Developer Experience:**  Being a Full Stack Developer, I’m passionate about scalable, reliable, and robust, Cloud-based web applications (Azure and AWS). I specialize in C#, .NET Core 6, Angular 11, CSS3, HTML5, TypeScript, SCSS, JavaScript, Bootstrap, SQL Server, Apache Kafka, Azure cloud, Docker, and all aspects of System Design. Relevant experience in US Healthcare Technology Domain. Also, hands on **Web Technologies using Angular Material, Angular, Bootstrap, .NET Core 6 based Web API, Auth0 (OAuth2) API security, DB Schema design, Serverless architecture design and development.** Developed **Hybrid apps** **using jQuery Mobile**. Worked on projects based on **Microservices Architecture built on top of cross-platform .NET Core framework, Java (Spring Boot).**  Designed, Developed and Maintained **Enterprise Web Applications** from the scratch**.** Being agile and keep upskilling myself whenever I get spare time. Keeping up with edge technologies and w3C standards. Responsible for the **design of app features** from concept to implementation. Involved in **Low-level and High-level system designing and coding the backend APIs complying SOLID and 12 Factor App principles**. Hands on Experience in writing RESTful Web Services. Worked in projects following Agile/Scrum methodologies.

**Development Experience Perl, Python, mod Perl, Memcached, Oracle SQL, Custom ASP:** 7 years of experience in developing Perl modules, Python scripts, Static to Dynamic pages. Crated web applications and services (based on SaaS app design) from the scratch using mod Perl and custom ASP that contributes directly to the overall client satisfaction by more than 20%.

**Microservices Architecture Experience:** More than 5 years ofexperience inmicroservices development using .NET Core, ASP.NET MVC, Razor View Engine, Kendo Template Engine, Multi-Tenant SQL Server DBMS. Designed, Developed and Maintained agile based RESTful Microservice APIs using .NET Core. Implemented Serverless Architecture for almost all the backend web jobs using Azure Functions, Azure Service Bus, Azure Blob Storage, Azure Data Lake, Azure Key vault, Azure Active Directory and Azure app services.

Did POC on using Cosmos DB (Azure’s NoSQL data storage instance) for big data (Patient documents, Clinical records etc.,) that are meant to be searchable.

Designed, Developed, and maintained API Security using Auth0’s security framework (complying to OAuth2.0 protocol). Handled Organization, Roles, Users Creation single handed to manage application session state management.

**JavaScript Experience:** More than 10 years of experience in Core JavaScript.

**Typescript Experience:** 2 years of experience in typescript.

**People Management Experience:** Being in leadership, responsible for people managements. Tracking team members progress, help the team in grooming by giving timely feedback. Help team by preparing growth path. Being SPOC, Responsible reporting the team members status to the manager. Address technical impediments that the team faces while implementing complex features.

**Development Experience Angular:** More than 1 year of Angular development experience. Worked on Angular 13, Angular Material, Angular CLI. Developing reusable directives and customized Pipes, Data tables, Angular tables - Sorting, Pagination and Filtering.

**Bootstrap Experience:** More than 2 years of experience in developing Single Page Applications using Bootstrap.

**Other Web Development Experience:** Involved in **XHTML, CSS designing and coding the site with W3C Standards& Cross browser** Compatibility. Worked extensively in Agile Methodologies of Project which has deliverables targeted sprint wise. Used JIRA to keep track of bugs reduce downtime, increase productivity, and Communication.

**Version Control Experience:** Having experience in using Source code repositories/version control tools like **Azure DevOps, TFS**, **Perforce**, **GIT** and **Bitbucket** to check-in and check-out code on daily basis.

 **CSS Preprocessors:** More than 5 years in LESS an SCSS. - CSS Preprocessors. Worked on Mixins, Extend, Variable concepts.

**Testing Experience:** Worked on Unit Testing Angular using Jest. Other than Unit testing worked on testing the application in various browsers like Chrome, Safari, Firefox, Internet Explorer, both in Windows and Mac Machines.

**Backend Experience**: Developed Web applications using .NET Core 2.x+ to .NET Core 6, DBMS design, Normalization in SQL Server and Java, Spring boot, mod Perl.

**Database Experience**: More than 7 years working experience with Oracle SQL database and more than 6 years in SQL Server (MSSQL). Database management with Azure SQL Server. Working experience NoSQL instances (MongoDB, Cosmos DB)

Expertise

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| Office Software: | MS Office |
| Operating Systems: | Window 10, Window […] XP/98/95, MAC OS  |
| Languages | C#, Core Java, JavaScript, Typescript, Perl, Python, Golang |
| Web technologies: | ASP.NET MVC, .NET Core 6, ASP.NET, ADO.NET, Dapper, HTML 5, XHTML, CSS3, JAVASCRIPT, JQUERY, AJAX, JSON and XML, ANGULAR 13, REACTJS, NODE.JS, TWITTER BOOTSTRAP, LESS, SCSS. |
| Web/Application Servers | Kestrel cross-platform webserver, IIS (Windows), HTTP Web Server, Apache Tomcat.  |
| Databases: | Oracle SQL, SQL Server |
| Cloud Platform | Azure (Azure functions, Service bus, Blob Storage, Data lake, Key vault, Active Directory, App services), AWS: S3 bucket |
| CICD | Git, Docker, AKS (Azure Kubernetes Services) |
| Security Framework:  | Auth0 framework based on OAuth2.0 protocol |
| Developing methods: | SDLC, Agile, Scrum, Waterfall, Microservices |
| Techniques |  TDD, DDD |
| Testing (Backend) | Junit, XUnit |
| Testing (Frontend) | Jest |
| Communication: | Outlook Express |

EDUCATION

B. Tech in Information Technology in 2009 from Government College of Technology (Anna University), Coimbatore, Tamil Nadu.

12th in Mount.St. Joseph Matriculation Higher Secondary School. in 2005 from the State Board of Secondary Education, Tiruvannamalai, Tamil Nadu.

10th in 2003 from Matriculation Board of Secondary Education, Tiruvannamalai, Tamil Nadu.

ACHIVEMENTS

Received **Employee of the quarter** in September 2010 for the individual contribution – Handling more than 1000 interfaces single handedly.

Winner of Hackathon held on Q3 2019 – After successful POC completion of Subsystems for 20+ microservice communication using gRPC

Runner up – Hackathon held on Q2 2021 – Ideation for improving patient Clinical Trial using data intelligence.

Received appreciations for the individual contribution for Dr. First (RCopia) and Auth0 Security Service projects after the successful beta release.

Received appreciations for consistent high performance across the development team

RELATED EXPERIENCE:

**Integra connect LLC Senior Technical Manager** Jan 2020 – Till Date

Project: Monolith Legacy Software migration to Microservices

Team Size: 12

Location: West Palm Beach, Florida

Personal Responsibility: Designed Developed .NET Core 6.x based Microservices following SOLID design principles and industry standard best practices. Collaborated in developing reusable Angular (v13) UI components and familiar with using NgRx for application state management. Researched, Designed and Integrated Auth0 to both the backend and frontend architecture. Collaborated in writing code to handle event streaming using Confluent Kafka.

Designed, Developed and maintained scalable microservices that talk to other services as well as third-party APIs (Dr.First) using BFF Design pattern

Designed, Developed, and maintain client-side session management of monolith application in the move to decouple it into microservices.

Designed prototype of Event-based Physician work list that has direct impact to the performance of EHR product

Part of the Quality Champions team to monitor code written by at least 10 engineers and guide them to adhere to best coding practices in terms of (OOPS and Security)

Engineered cloud based (Server-less Architecture) to move TBs of data from Azure SQL PaaS to Azure Blob Storage without impacting state of the data. Reduced potential cloud cost by 25% on storage

Enhanced performance of Business Centric SQL queries through proper normalization, Indexing and strategizing business.

Acted as Cloud Security Team Liaison to identify potential vulnerabilities in the platforms (Azure Resources) being consumed by the product as well as in the code base.

**Integra connect LLC Technical Manager** Jan 2018 – Dec 2019

Project: Monolith Legacy Software migration to Microservices

Team Size: 8

Location: Bangalore, India

 Personal Responsibility: Did code contribution to migrate legacy, Data Center based, web services to Azure cloud that contributes to the Hospital's Clinical/Financial data management.

 Designed and Implemented MVC based application for doctor's daily Work Queues that reduces their sign-off time by 50%. One-Click-Do-All approach.

 Built and deployed NodeJS based File storage micro-service with Cosmos DB

 Implemented middleware to the existing legacy ORM model enabling seamless transition from monolith to micro-services architecture using Apache Thrift/Python

**Athenahealth Technologies Lead Member Tech Staff** April 2014 – Dec 2017

**Project**: Intuitive Patient Health Data Capture platform

**Location**: Chennai, India

 **Personal Responsibility**: Designed and Implemented e-remittance micro-service for posting paper format of payment information from Insurance companies to claims submitted. It Improved process automation by 80% that critically made the company independent of high-error-prone manual data entry process.

 Contributed individually to the remittance process improvements that improved overall client satisfaction by 20%.

 Developed hands-on experience in CICD with unit testing and integration testing with 80% code coverage

**Tools and Technologies**: ReactJS, HTML5, CSS3(LESS/ SCSS), GIT, Typescript, Agile, JSON, Spring Boot (Java), AWS.

**Athenahealth Technologies** **Technology Lead** Jan 2013 – Dec 2013

**Project**: Electronic Remittance Advice management

 **Personal Responsibility**: Designed and Implemented tool to enable primitive development environment to be used by business team for testing, by forking web server with different open ports. Improved business teamwork by 100% since independent from developer's help for testing.

 Implemented (International Classification of Diseases) ICD-10 file parsing and reporting self-service tool to help business team to connect to insurance companies while rolling out different versions of classification

**Tools and Technologies**: Perl, mod Perl, shell script, crontab, Oracle DB, SQL, HTML5, jQuery, CSS, d3js

**Athenahealth Technologies** **Senior Software Engineer** Jan 2012 – Dec 2012

**Project**: Interface Self-Service

 **Personal Responsibility**: Designed and Implemented tool to maintain approximately 10000 cron jobs in server, that facilitates information exchange between various Electronic Health Record systems (Interoperability feature). Improved client satisfaction by 70% (e.g., restarting cron job is instantaneous by the help of tool)

 **Tools and Technologies**: Perl, mod Perl, Oracle DB, SQL, shell script, Cron Architecture, XHTML, CSS3, jQuery

**Athenahealth Technologies** **Software Engineer**  Jan 2011 – Dec 2011

**Project**: Interface Self-Service

 **Personal Responsibility**: Designed and Implemented Self-service implementation tool that improved 50% of business implementation team per week.

 Designed, developed and maintained tool to move healthcare documents between various product workflows. Improved 100% TAT on improper document routing when addressed by client.

**Tools and Technologies**: Perl, mod Perl, Oracle DB, SQL, shell script, Cron Architecture, XHTML, CSS3, jQuery, Event Queue

 **Athenahealth Technologies Senior Programmer Mar 2010 – Dec 2010**

 **Project:** Interface Self-Service

 **Personal Responsibility:** Built information (demographics/financial) exchange services connecting various of systems Electronic Health Records.

 Approximately 1000 Interfaces + service customizations (HL7, XML, Jason).

 **Tools and Technologies**: Perl, mod Perl, Oracle DB, SQL, HTML, JavaScript, CSS

 **Raiden Software Software Engineer Trainee Oct 2009 – Feb 2010**

 **Personal Responsibility:** Undergone training in C and Java programming language for 3 months

 Written 10000 lines of code in C in a month while getting strong on the fundamentals and solving CS problems

 Established documentation on the fundamentals and training set up for new team members

 **Tools and Technologies:** Java, Spring Boot, C, Oracle DB