

Zunayed Hasan

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A seasoned **Senior Software Engineer** with more than nine years of experience in Software Development. Expertise spans a wide array of domains, encompassing **healthcare, banking, media, telecom, hospitality, accounting, retail** and **insurance**. Proven track record of proficiency in both backend and frontend development, leveraging various web-based technologies, cloud infrastructures, and **mobile** application development.

Professional Highlights

- Extensive experience in building multi-tier enterprise applications using **Java** and **J2EE** technologies.
- Proficiency in web application development with a wide range of technologies, including Angular, React JS, Spring Framework, JSP and ASP.Net.
- Skilled in developing interactive **mobile** applications for both native Android and cross-platform solutions.
- Expertise in utilizing various integrated development environments (IDEs) such as Spring Tool Suite, IntelliJ IDEA, Android Studio, Jupyter Notebook, PyCharm, Visual Studio Code and more.
- Proficient in creating RESTful web services using frameworks like Spring Boot, Fast **API**, Flask, Django, Laravel, Node/Express and implementing XML based Web Services (SOAP/UDDI/WSDL) using Top Down and Bottom Up approach
- Strong background in database design and query optimization across multiple database systems, including Oracle, PostgreSQL, **SQL** Server, MySQL, and **NoSQL** databases like MongoDB, Cassandra, and **DynamoDB**.
- Experienced in implementing various design patterns and architectural concepts; i.e: MVC, MVVM, VIPER, SOLID, Clean Code.
- Hands-on experience with cloud technologies, including **AWS**, Azure and GCP.
- Well-versed in SDLC methodologies like Agile (Scrum, XP) and Waterfall, with a focus on integrating **microservices** and service-oriented architecture (SOA).
- Successfully integrated ETL solutions, optimizing the management and analysis of extensive datasets for the purpose of supporting business intelligence initiatives, data warehousing, and facilitating data-driven decision-making processes.
- Adept in deploying applications in CI/CD environments, containerization with Docker, orchestration with Kubernetes, and implementing caching strategies for improved performance.
- Leveraged cutting-edge data analysis and machine learning technologies to drive tangible results in the retail industry.
- Proficient in implementing messaging services for asynchronous communication using technologies like Kafka, Active MQ and Rabbit MQ, and experienced with application servers like Apache Tomcat, Nginx, Web Logic, JBOSS, and IBM WebSphere.

Technical Skills

Programming Languages: **Java**, **Python**, **JavaScript**, C#, Kotlin, C/C++, **SQL**, Scala, Solidity, PHP.

Java/J2EE Technologies: Spring Boot, Spring Core, Spring Batch, Spring Security, Hibernate, HQL, Servlets, JSP, JSF, JDBC, JSTL, JPA, JMS, JNDI, JAX-RPC.

Python Technologies: Django, RPA, OpenCV, Numpy, Pandas, Pytorch, Flask, pytest, Matplotlib, BeautifulSoup, FastAPI

JavaScript Technologies: Angular v8-v15, NodeJS, Express JS, ReactJS, Vite, Webpack, Redux, Hooks, TypeScript, React Native, NPM, NgRx, jQuery, Ajax, Material UI, JSX, Babel, i18n.

Android Technologies: Retrofit2, OkHttp, Dagger2, Butterknife, BroadcastReceiver, Content Provider/Resolver, Sandbox Security, Notification Builder framework, Fragment, Drawer, Storage, GCM/FCM, SQLite, Glide, Intents, Intent Filters, Layouts (XML, custom View and ViewGroup), WebView, Threads (AsyncTask, Timer Task, handlers)

Web Technologies: GraphQL, ASP.Net, HTML5, DHTML, XHTML, SCSS, Bootstrap, CSS3, PrimeFaces, JSON, XML, XML-RPC, DOM, JAXP, XPATH, RESTful, SOAP, Redis, Apache Ignite, RabbitMQ, ActiveMQ, Apache Kafka, SAP-RFC.

Messaging: Twilio, Twilio Flex, Twilio Serverless, Twilio SDKs, Twilio Chat, Smack, XMPP-Lua Script, FCM, Pusher.

Cloud Technologies: **AWS** (EC2, S3, Redshift, EMR, SQS, SNS, **Lambda**, CloudWatch, IAM, Entitlement), Azure (AD, AKS, Blob Storage), GCP (Compute Engine, App Engine, Functions, Storage, Datastore, Pub/Sub, Speech-to-text) Terraform, Ansible.

Database: Oracle 11g, PostgreSQL, MySQL, MSSQL, RDS, Cassandra, MongoDB, **DynamoDB**, SAP HANA.

Application Servers: Apache Tomcat, Nginx, JBoss, IBM Web Sphere, BEA Web Logic, Jetty.

Data analysis & ML Technologies: Tableau, Hadoop, BigQuery, Terradata, Hive, Apache Spark, PySpark, Azure Data Bricks, MLFlow, NLTK, Tensorflow, BigML, RLib, PowerBI, RapidMiner.

Security: SSL, HTTPS, OAuth2, JWT, Kali Linux, Metasploitable Framework, Autopsy, White-box cryptography, Arxan Key, Ethereum, JAAS, TLS, IAM, Spring Security, OWASP

Operating Systems: Red Hat Linux, SuseLinux, KaliLinux, CentOS, Ubuntu, Windows, Mac OS X, Android

Containerization & Orchestration: Docker, DockerHub, DockerRegistry, Kubernetes

Monitoring: Prometheus, Grafana, ELK Stack, Splunk, Log4J, Sentry, Google Analytics, Bugzilla, Crashlytics

Management Tools: RFP, Jira, Trello, OpenProject, Redmine.

CI/CD & Build Tools: Maven, Gradle, Ant, Jenkins, Bamboo.

Database Design & Software Architecture: UML, DAO, ERD, SOA, MVC, MVVM, VIPER, Factory, Facade, Clean Code.

Testing Frameworks/Tools: JUnit, TestNG, Mockito, JMeter. WireMock, Robolectric, Espresso, Selenium, Jasmine, Karma, Katalon.

Version Control: Git, BitBucket, Gitlab, CVS, SVN, Rational Clear Team Explorer.

Utility Tools: SQL Plus, TOAD, PuTTY, Adobe XD, Figma, Storybook, MobaXTerm, RUMBA, WinSCP, WinSQL, Snowflake, Postman, VMWare, Navicat, Datadog, Traceroute.

Education

- ✓ **Master of Science in Computer Science (Major: Cyber Security), UIU.**
- ✓ **Bachelor of Science in Computer Science and Engineering, BUET.**

Relevant Work Experience

Senior Software Developer

Synchrony Financial, Stamford, CT

May 2022 - Present

Responsibilities:

- Involved in business requirement gathering, Analysis, Design, Development, Integration of end to end application modules.
- Worked on core AWS services such as Setting up new server (EC2) instances/services in AWS, configuring security groups, and setting up Elastic IP's, auto-scaling and Cloud Formation.
- Implemented OAuth2 framework at backend using NodeJS.
- Resolved various production issues at back end using Java and NodeJS.
- Used JPA (Hibernate implementation) to leverage transparent persistence for Plain Old Java Objects(POJOs), basic CRUD operations, full object mapping lazy loading, cascade operations, Session, SessionFactory, Query, Transaction, Criteria interfaces, Annotations, Hibernate Query Language (HQL), association mapping, configuration of hbm.xmlfiles.
- Designed and developed a SOAP based Web Services layer to interface with an Enterprise layer.
- Integrated payment methods such as Visa API, MasterCard API.
- Collaborated with cross-functional teams, including front-end developers and UI/UX designers, to integrate Django-powered APIs and templates into web applications, ensuring a cohesive and visually appealing user interface.
- Employed Python for scripting and automation tasks, enhancing development workflows by creating custom management commands and automated data import/export scripts.
- Developed GraphQL queries, subscriptions, mutations to ensure real time data update reducing the load of backend servers.
- Written Unit Test Cases for all the developed use cases and did integration testing using Junit, tested android app with Robolectric.
- Used a microservice architecture, with Spring Boot-based services interacting through a combination of REST, MQTT and Apache Kafka endpoints. Deployed services to EC2 in Docker containers, managed by kubernetes.
- Created/managed Mongo DB/NoSQL collections. Developed Server side automation using Node.js scripting and connecting different types of SQL and NoSQL store.
- Used React, Redux and Hooks to create controllers to handle events triggered by clients and send request to server.
- Utilized caching to optimize database queries, reducing the load on backend databases and improving query response times.
- Created a dapp (decentralized app) with ReactNative for connecting with an Ethereum network developed by an offshore team with the minimum guidance of understanding ethereum, solidity and blockchain.
- Checked the logs, identified and fixed the issue as quickly as possible in case of a production issue.
- Guiding the scrum teams and larger organization on how to get the most out of Agile/Scrum practices.

Senior Software Developer

Pitney Bowes Inc., Shelton, CT

November 2020 – April 2022

Responsibilities:

- Developed in Android SDK (Android 5.1 - 8.1), coding exclusively in Kotlin, and using the latest version of Android Studio. Implemented Firebase for a real-time database, and Firebase Push Notifications.
- Converted old responses into Rx2 error handling methods
- Worked in 2-week sprints beginning with Confidential Planning and ending with Confidential Retrospective.
- Wrote various complex SQL queries and stored procedures in Oracle 11g using TOAD and SQL Developer. Used PL/SQL as a building block and was responsible for writing Hibernate Criteria and HQL queries.
- Implemented a real-time data processing module leveraging Scala's functional programming features, ensuring efficient data transformations and enhancing system performance by 20%
- Used GraphQL to fine-tune data retrieval resulting in efficient db queries improving response time and reduced load on server.
- Used Java Messaging Services (JMS) for reliable and asynchronous communication.
- Integrated Azure Blob Storage to efficiently store and manage various data types, such as user files, images, and application data.
- Worked on a Django Project on inventory management implementing Django's built-in authentication and authorization systems to secure application endpoints and protect sensitive user data, implementing custom access controls when necessary. Managed database schemas and performed complex data migrations using Django's Object-Relational Mapping (ORM) for PostgreSQL ensuring data integrity and efficiency.
- Deployed microservices on AKS for container orchestration, making them RESTful and highly scalable.
- Used Multithreading as many users are going to use the application concurrently.

- Implemented REST Based Web Services with Spring MVC
- Prepared high and low level design documents for the business modules for future references and updates.
- Used firebase analytics, google analytics and facebook deep linking in website for user action forecasting and decision making with the help of scikit learn in python.
- Worked on google input tools and translate api and developed a rating system with scikit learn for user and agent in a rpa based customer relationship management solution.
- Integrated matplotlib and opencv for image processing and data visualization. Also worked on gaining valuable insights from scrapped images and data stored in an unsupervised manners.
- Used JIRA and Rally as Bug Tracking, Task Creation and Status Update system.
- Wrote Unit Test Cases and maintained review and defect logging documents.
- Used WebEx to conduct training sessions to offshore team for knowledge sharing of the product and helped new team members bring onboard resolving their specific queries pertaining to technical as well as business domain.

Full Stack Developer

Boehringer Ingelheim, Ridgefield, CT

June 2019 – October 2020

Responsibilities:

- Developed responsive single-page applications using React, TypeScript, and Redux, working closely with the front-end UI team.
- Customized and integrated the Jitsi open source platform with ReactJS, SpringBoot, Selenium, Kubernetes, Docker and XMPP.
- Implemented version management with RTC and routing in Angular, including internationalization (i18n) libraries.
- Designed and developed RESTful APIs with Flask REST framework to facilitate communication between front-end and mobile applications.
- Practiced Acceptance Test Driven Development (ATDD) and handled NoSQL databases, including full-text search with Elasticsearch.
- Utilized Spring Framework to migrate from Struts, created load test scripts with Python and Selenium, and ensured secure authentication with Azure AD.
- Implemented cache management, deployment with u-deploy and Jenkins, design patterns (MVP, Singleton, Observer), and participated in requirements gathering, design, and collaboration with stakeholders.

Software Developer

United Technologies Corporation, Enfield, CT

December 2017 – May 2019

Responsibilities:

- Developed Android app screens and workflows using Activities and Fragments and supervised the creation of testing suites with Espresso and Mockito for app quality assurance.
- Ensured backward compatibility by utilizing APIs from different levels and conducted extensive debugging and testing.
- Leveraged Google BigQuery and Tableau to perform data analysis and create interactive dashboards as well as used PySpark and Hive to process and analyze customer data, segmenting customers based on their purchasing behavior.
- Efficiently integrated and managed code using Jenkins CI and Git for version control.
- Implemented A/B testing with RapidMiner onto real time performance data obtained by google analytics, crashlytics.

Software Developer

Caesars Entertainment, Inc., Las Vegas, NV

February 2016 - November 2017

Responsibilities:

- Developed Android apps with multiport view support, Material design features, chat functionality using Smack and employed Dagger for Dependency Injection, ensuring unit testing compatibility, and used support libraries for OS backward compatibility.
- Integrated Spring validation, Hibernate ORM, and Scala error handling for efficient data operations and issue resolution.
- Created JSP pages with resource bundles and built an IoT data analytics dashboard using Python and Django.
- Used beautiful soup for scraping data from websites, numpy and pandas to calibrate and analysis for the data in python scripts.

Software Developer

Divergent Technologies Ltd, Dhaka, Bangladesh

April 2014 – January 2016

Responsibilities:

- Contributed to the development of technical documentation to support internal and external stakeholders.
- Designed and implemented business functionality, including hidden login authentication, in web systems.
- Developed PLSQL stored procedures and triggers, collaborated with quality assurance teams for comprehensive testing, and created complex web forms and MVC applications to meet client requirements, enhancing user experiences. Additionally, established robust authentication and authorization systems with integration into external identity providers and role-based access control (RBAC).
- Integrated ASP.NET applications with databases using Entity Framework for efficient data access and manipulation, while leveraging social media libraries for seamless connectivity to platforms like Facebook, Twitter, and Google Plus.

Zunayed Hasan

- Washington, DC, US

Contact Information

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Skills

- **software** - 9 years
- **software development** - 9 years
- **application development** - 8 years
- **databases** - 8 years
- **java** - 8 years
- **android** - 7 years
- **api** - 7 years
- **linux** - 7 years
- **oracle** - 7 years
- **python** - 7 years
- **ui** - 7 years
- **business requirements** - 6 years
- **javascript** - 6 years
- **stored procedures** - 6 years
- **angularjs** - 5 years
- **database** - 5 years
- **django** - 5 years
- **hibernate** - 5 years
- **jenkins** - 5 years
- **mvc** - 5 years
- **mysql** - 5 years
- **postgres** - 5 years
- **reactjs** - 5 years
- **unit testing** - 5 years
- **cybersecurity** - 4 years
- **integration** - 4 years
- **asp.net** - 3 years
- **aws** - 3 years
- **facebook** - 3 years

- **nosql** - 3 years
- **ux** - 3 years
- **docker** - 2 years
- **orchestration** - 2 years
- **azure** - 1 years
- **qa** - 6 years

Work Preferences

- Desired Work Settings: Remote or On-Site or Hybrid
- Likely to Switch: True
- Willing to Relocate: True
- Travel Preference: 100%
- Work Authorization:
 - US
- Work Documents:
 - Have H1 Visa
- Security Clearance: False
- Third Party: False
- Employment Type:
 - Full-time
 - Part-time
 - Contract - Corp-to-Corp
 - Contract - Independent
 - Contract - W2
 - Contract to Hire - Corp-to-Corp
 - Contract to Hire - Independent
 - Contract to Hire - W2

Profile Sources

- Dice: <https://www.dice.com/employer/talent/profile/31967cf5749efe6deeb95741f80bfc5b>