# Ruthwik Bommana

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## SUMMARY

Software Development Engineer with over 3 years of experience in Java, Spring Boot, React.js, Python, and AWS. Proven track record in developing and optimizing scalable applications, enhancing CI/CD pipelines, and migrating legacy systems to the cloud. Strong background in code reviews, coding standards, and enhancing customer experience with scalable and reliable solutions.

## EDUCATION

**Clemson University**                                                                                      **Clemson,South Carolina**
*Masters in Computer Science*                                                              *Graduation Date: Dec 2023*

**Lovely Professional University**                                                                        **Punjab, India**
*Bachelor's in Computer Engineering*                                                        *Graduation Date: May 2021*

## WORK EXPERIENCE

**Fiserv**                                                                                                              **Bengaluru, India**
*Software Development Engineer*                                                              *Jan 2021 - Apr 2022*

- Developed responsive web interfaces using HTML5, CSS3, and JavaScript, ensuring seamless cross-browser compatability and improving user engagement.
- Enhanced application performance by 25% by implementing the MEAN stack (MongoDB, Express.js, AngularJS, Node.js) to streamline full-stack development processes.
- Optimized database queries, reducing response times by 15% by efficiently managing CRUD operations with Mongoose.js, improving backend performance.
- Boosted data exchange speed by 30% through the development of RESTful Web services and APIs using Node.js and Express.js, enhancing real-timw data handling.
- Improved development efficiency by 20% by utilizing NPM for dependency management and task automation, leading to faster build processes and reduced downtime.
- Implemented advanced search capabilities using NLP and the Smith-Waterman Algorithm, increasing search precision and reducing query processing times.
- Deployed scalable applications on Heroku, reducing deployment times by 25% while ensuring high availability and reliability in production environments.

**Fiserv**                                                                                                              **Atlanta, Georgia**
*Software Development Engineer*                                                              *May 2023 - Present*

- Led the migration of legacy systems to a more scalable and cost-effective AWS infrastructure, reducing operational costs by 20% and enhancing system reliability.
- Optimized data pipelines, ensuring seamless data flow between MonogDB and Power BI, which improved data processing speeds by 25%.
- Collaborated with cross-fucntional teams to integrate new featirs into the taxonomy site, enhancing user experince and enabling faster decision-making.
- Automated deployment processes using Jenkins and Docker, reducing deployment times by 30% and minimizing the risk of human error.
- Conducted performance tuning on existing AWS services, resulting in a 15% reduction in latency and improved application responsiveness.
- Developed API endpoints for seamless data interchange between internal systems, improving data accuracy and reducing manual intervention by 35%.

## PROJECT EXPERIENCE

**Bucket List Tracker**
*AWS Amplify, GraphQL, DynamoDB, S3*

- Developed and deployed a serverless web application on AWS Amplify, enabling users to create and manage and track their bucket lists in real time.
- Implemented scalable GraphQL APIs with AWS AppSync, facilitating precise and efficient data retrieval and management, which improved application responsiveness by 20%.
- Utilized DynamoDB for secure and scalable storage of bucket list items, ensuring quick and reliable data access even with high traffic, resulting in a 25%improvement in database performance.
- Integrated Amazon S3 for user image storage, providing a seamless user experience for uploading, storing, and accessing images with minimal latency.
- Enhanced project efficiency by levaraging AWS CLI, streamlining service configuration and deployment, which reduced setup time by 30% and minimized deployment errors.

**Next-Gen Banking Platform**

*Java, Spring Boot, SQL Server, React.js*

- Led the development of a next gen banking platform, delivering 5+ key features through Java, Spring Boot and React.js
- Enhanced CI/CD efficiency and scalability by implementing Docker, improving deployment reliablity.
- Optimized data management with a secure SQL Server, ensuring data integrity.
- Architected a microservices framework in Java, Spring Boot, allowing seamless feature integration.
- Boosted processing speed by 30% and user satisfaction by 40% through UI and backend optimization.

**Gas Transimission Replacement**

*Liferay 7.0, Angular 5, Webdynpro JAVA, ABAP*

- Migrated SAP-managed site data to an Oracle database via Oracle Fusion Management and Liferay-based REST services.
- Developed complex REST services for asset hierarchy retrieval, inetgrating data from Gas Quality Systems and equipment.
- Designed and validated asset management UI in Angular 5, ensuring seamless data entry and user experience.
- Converted SOAP to JSON for front-end use, improving data accessibility.
- Replicated SAP functionality (Webdynpro JAVA, ABAP RFCs) within the new Liferay system.
- Replaced SAP PI middleware with Oracle Fusion for efficient data processing.

## SKILLS

**Programming languages:** Python, SQL, C++, Java, Scala

**Frontend Technologies:** HTML5, CSS3, Javascript, AngularJS, React.js, jQuery, Bootstrap, JSON

**Backend Technologies:** Node.js, Express.js, Spring Boot, GraphQL, Restful APIs

**Database Management:** MongoDB, Mongoose.js, SQL Server, MySQL, PostgreSQL

**Development Tools:** NPM, Gulp, Docker, Kubernetes, Jenkins, Git, Github

**Cloud Deployment:** AWS (EC2, S3, Lambda, VPC, ELB, RDS), Heroku, Azure

**Testing and Optimization:** Unit and Integration Testing (JUnit, Mockito, Selenium), Performance Optimization

**Methodologies:** Agile, Scrum, CI/CD

## CERTIFICATIONS

AWS Certified Solutions Architect Associate | Amazon AWS