

# RUTHWIK REDDY BOMMANA

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## SUMMARY

"Full Stack Developer with 3+ years of experience in developing and optimizing MEAN stack applications, driving a 25% improvement in performance and 20% reduction in hosting costs through cloud-based solutions. Expertise in AWS, Python, SQL, and scalable data pipelines."

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, C/C++, Java, Scala

**Frontend Technologies:** HTML5, CSS3, JavaScript, AngularJS, React.js, jQuery, Bootstrap, Responsive Web Design, JSON

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

**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, CI/CD

**Methodologies:** Agile, Scrum.

## PROFESSIONAL EXPERIENCE

**Software Engineer Intern | Fiserv | Atlanta | Georgia**

**Jan 2024 – Present**

- Worked on workflow management, developed an internal taxonomy user site which describes scientific jargon, provisioned the infrastructure of the website by leveraging AWS tools and saved **1200** hours of effort.
- Implemented Unit tests, Integration tests for the internal website and achieved **41%** increase in the operational efficiency by minimizing the pipeline blockages.
- Conceived the strategies to visualize, develop numerous Power BI dashboards by congregating the data from MongoDB tables, scientific reports to increase the productivity of the team by **30%**.

**Software Developer | Fiserv | Bangalore | India**

**Jan 2021 – April 2022**

- Developed responsive web interfaces using HTML5, CSS3, and JavaScript.
- Enhanced application performance by 25% through MEAN stack (MongoDB, Express.js, AngularJS, Node.js) development.
- Optimized database queries, reducing response times by 15% by implementing CRUD operations with Mongoose.js.
- Increased data exchange speed by 30% through RESTful Web services and API development using Node.js and Express.js.
- Improved development efficiency by 20% using NPM for dependency management and task automation.
- Applied NLP and Smith-Waterman Algorithm for advanced search capabilities, improving search performance and precision.
- Deployed scalable and reliable applications on Heroku, cutting deployment times by 25%.

## PROJECTS

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

- Developed and deployed a serverless web application on AWS Amplify, enabling users to create and manage their bucket lists.
- Implemented scalable GraphQL APIs with AWS AppSync, allowing precise and efficient data retrieval and management.
- Utilized DynamoDB for secure and scalable storage of bucket list items, ensuring quick and reliable data access.
- Integrated Amazon S3 for user image storage, providing a seamless experience for uploading and accessing images.
- Enhanced project efficiency by leveraging AWS CLI for streamlined service configuration and deployment.

**Next-Gen Banking Platform | Java, Spring Boot, Docker, Kubernetes, 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 reliability.
- Optimized data management with a secure SQL Server database, 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 Transmission Replacement (GMIST with Liferay 7.0) | 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, integrating 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.
- Integrated Angular with Liferay and automated Gradle tasks using Jenkins.

**E-Farming Android Application | Python, Scikit-learn, Java, GeoPandas, Android Studio, Firebase**

- Increased crop yield prediction accuracy by 25% using advanced ML models (SVM, Random Forests).
- Enhanced data integrity with Firebase cloud storage and efficient API integration.
- Improved farming efficiency by 20% within the first year, with a user-friendly platform for 5,000 users.

## EDUCATION AND CERTIFICATIONS

**Master of Science in Computer Science | Clemson University**

**Dec 2023**

**Bachelor of Technology in Computer Engineering | Lovely Professional University**

**May 2021**

**AWS Certified Solutions Architect Associate | Data Science Foundations | Data Visualizations in Tableau | JavaScript**