

SHIVATHMIKA BABBURI

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Software Engineer with 2+ years' experience in microservices, web development, and cloud solutions. Skilled in Java, Spring Boot, React, and AWS, delivering scalable, user-focused systems. Adept at fostering Agile collaboration to align technical excellence with business goals.

EDUCATION

GEORGE MASON UNIVERSITY, Fairfax, VA

Aug 2022 – May 2024

Master of Computer Science, GPA: 3.8/4.0

SREENIDHI INSTITUTE OF SCIENCE & TECHNOLOGY

Aug 2018 – June 2022

Bachelor of Technology in Computer Science, GPA: 3.7/4.0

SKILLS & CERTIFICATIONS

Programming Languages & Tools: C, Java, Python, JavaScript, SQL

Web and Application Development: React, Redux, Spring Boot, Node.js, Express, Django, RESTful APIs, GraphQL

Database Management: PostgreSQL, MongoDB, MySQL, Oracle DB, Redis

Cloud and DevOps: AWS (ECS, RDS, Lambda), GCP, Docker, GitHub Actions, CI/CD pipelines

Certifications: Associate Developer (Amazon Web Services), Full Stack Developer (IBM-Coursera)

PROFESSIONAL EXPERIENCE

Software Engineer

May 2024 – Present

ProbLogic, Remote, US

- Built microservices architecture with Java Spring Boot to ensure seamless scalability and deployments for 10,000+ daily transactions.
- Crafted React-based frontend components with state management using Redux and advanced hooks, enhancing responsiveness for users.
- Pioneered RESTful APIs with efficient data serialization using Jackson and integrated them with GraphQL for flexible client-side queries.
- Upgraded PostgreSQL databases, employing advanced indexing, sharding, and query optimization techniques to handle 50M+ records.
- Utilized Redis for distributed caching and session management, optimizing data retrieval for low-latency, high-throughput applications.
- Deployed and managed cloud-native apps on AWS, utilizing services such as ECS, RDS, and Lambda to automate scalable infrastructure.
- Created and optimized CI/CD using GitHub Actions and Docker, ensuring secure, automated builds, and zero-downtime deployments.
- Collaborated with Agile teams, utilizing Jira for sprint planning, and ensured alignment between technical solutions and business goals.

Full Stack Software Developer Intern

May 2023 – Oct 2023

Analytical Data Solutions LLC, Remote, US

- Created dynamic React components using hooks and context API, enabling responsive UIs and efficient state management for web apps.
- Generated RESTful APIs in Node.js, enabling seamless communication between services with high scalability and performance.
- Unified MongoDB by implementing compound and text indexing, and tuning complex queries to reduce execution time by 40%.
- Integrated Redis caching for faster responses, reducing database load by 60%, storing frequently accessed data for high-performance apps.
- Automated CI/CD with GitHub Actions and deployed containerized Node.js apps via Docker and Kubernetes for scalable environments.

Software Engineer

Jan 2022 – Jul 2022

Cognizant, Hyderabad, India

- Engineered scalable microservices with Spring Boot and REST APIs, ensuring seamless integration and high performance across systems.
- Delivered robust web apps using React.js for user interfaces and Java for backend, ensuring secure, efficient data processing workflows.
- Initiated and optimized database schemas, advanced SQL queries, and used JPA for efficient and seamless ORM implementation.
- Secured systems with Spring Security and JWT, implementing authentication and authorization per industry standards for data safety.

PROJECTS

Job Management Application — MERN, Express, MongoDB, JavaScript

- Engineered a MERN-based job tracker with VITE, React Router 6.4+, secure Express backend, and MongoDB for efficient data storage.
- Integrated JWT authentication, hashed passwords, CRUD operations, and charts for data visualization; deployed with VITE proxy.
- Optimized API endpoints and database queries to enhance performance and ensuring seamless handling of user data and interactions

eCommerce Platform — Java, Spring Boot, MySQL, React

- Developed a scalable eCommerce app with Spring Boot, React, MySQL, and role-based access control for secure transactions.
- Deployed on AWS using Spring Security, JPA, and pagination to optimize performance and ensure an intuitive user experience.
- Integrated product search and filtering functionality to enhance user experience and streamline navigation through large inventories.