

ARAVIND RAVICHANDRAN

Full Stack Developer, Senior Software Engineer

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Summary

Full Stack Developer with more than 5 years of experience in building scalable enterprise applications using Java, Spring Boot, Angular, React, and AWS. Proven ability to design cloud-native architectures, optimize backend systems, and develop dynamic UI components. AWS Certified Developer Associate with a strong focus on microservices, RESTful APIs, and test automation.

Education

University of Central Missouri

Masters in Computer Science

Jan 2023 – Dec 2024

MLR Institute of Technology

Bachelor's in Electronics and Communication Engineering

Lee's Summit, Missouri

Aug 2014 – May 2018

Hyderabad, India

Technical Skills

Programming Languages: Java, C, Python, C++.

Web Technologies: JavaScript, Angular, ReactJS, Typescript, Node.js, RESTful APIs.

Frameworks/Tools: Spring Boot, Spring MVC, GitHub, Tomcat, Maven, Jenkins, Jira, Microservices, Agile methodology.

Databases: MySQL, MongoDB, PostgreSQL, DynamoDB.

Testing: JUnit, TestNG, Selenium, Cucumber, Jest.

Cloud Platforms: AWS (EC2, ECS, ECR, IAM, S3, ELB, RDS, Lambda, CloudWatch), GCP (Cloud Storage, Load Balancer, Kubernetes Engine), Azure.

Work Experience

Full Stack Developer, Metastate Bio

Delaware, USA

Aug 2024 – Dec 2024

- Led the development of a modular microservices architecture using Java Spring Boot, MongoDB, and Angular, reducing system downtime by 30% and improving patient data processing efficiency by 40% in the Metabolomics R&D platform.
- Built dynamic, responsive front-end modules using Angular with RESTful API integration, enhancing data visualization and improving user workflow efficiency by 35%.
- Deployed scalable healthcare solutions on AWS (EC2, S3, RDS, CloudWatch), achieving 99.9% uptime and reducing infrastructure costs by 20% through cloud-native technologies and automated scaling.
- Architected data-driven solutions with advanced MongoDB schema designs, enabling real-time analytics that accelerated personalized Metabolomics recommendations by 35% and boosted user engagement by 25%.

Associate Consultant, Infosys

Hyderabad, India

Jan 2022 – Dec 2022

- Engineered AI-powered health and wellness platforms using Java Spring Boot, Angular, and Node.js, enhancing user satisfaction by 25% through intuitive UI and real-time personalized recommendations with 98% accuracy.
- Built scalable backend systems with Spring Boot, AWS, and PostgreSQL, boosting system performance by 30% and cutting latency by 50%.
- Led optimization of Consultation and Payments Microservices, doubling revenue by streamlining backend operations and modernizing the UI with Angular components for seamless interaction.
- Developed RESTful APIs with Spring Boot and integrated Memcache for caching, improving response times by 40% and supporting high concurrency traffic.

Senior Analyst, Capgemini

Bangalore, India

Mar 2019 – Jan 2022

- Developed a real-time chat module using ReactJS and Spring Boot for eCommerce platforms, increasing user engagement by 50% and reducing customer inquiries by 40%.
- Improved API design using Spring Boot, reducing data retrieval time by 75% across SQL and MongoDB databases.
- Coordinated the implementation of advanced caching mechanisms, improving system performance by 35% and reducing server load time by 50%.
- Revamped AWS deployment strategies to enhance scalability and responsiveness, leading to a 50% increase in load capacity and 75% faster server response times.
- Designed a banking web application using Spring Boot and Angular, increasing refund system efficiency by 50%.
- Automated test scripts with Selenium and Java, reducing manual effort by 80% and enhancing QA reliability.

- Created and optimized filter queries in MongoDB, improving JSON data retrieval performance by 30%, and seamlessly integrating the retrieved data in the service layer.
- Developed a responsive Single Page Application (SPA) using React.js, Redux, and Node.js, resulting in a 20% increase in user engagement and a 15% improvement in page load speed.
- Built stateful and stateless components in React.js, enhancing user experience by 25% and simplifying code maintenance by 20%.
- Utilized Node.js as a runtime environment to develop high-performance RESTful APIs, enabling seamless data exchange between the front-end and back-end and increasing data transfer speed by 30%.
- Designed and implemented automated test scripts with Selenium WebDriver and Java, increasing testing efficiency by 80% and significantly reducing manual testing efforts.

Projects

Neu Social Networking Portal

Tech Stack: Spring Boot, React, Redux, PostgreSQL, WebSockets, JWT

- Developed a full-stack social media platform enabling real-time chat, user authentication, and media sharing.
- Integrated WebSockets for instant messaging and implemented JWT-based secure login.
- Optimized PostgreSQL queries and Redux state management, reducing message latency to less than 100ms and improving page load speed by 40%.

Cloud-Native REST API with AWS S3 Integration

Tech Stack: Spring Boot, AWS S3, EC2, IAM, CloudFormation

- Engineered a RESTful API for scalable file uploads and retrieval, handling 10GB+ media efficiently via AWS S3.
- Designed a cloud-native backend architecture achieving 99.9% uptime and consistent less than 200ms API response times.
- Implemented secure file access, IAM roles, and infrastructure automation using CloudFormation.

Certifications

- AWS Certified Developer – Associate

June 2024