SIDDHARTHA RAVILLA

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Education

Northeastern University, Boston, MA   **Sept 2023 - May 2025**
Master of Science in Computer Software Engineering   *3.84/4*
Coursework: Data Structures & Algorithms, Database Management Systems, Web Development, Design Patterns

Jawaharlal Nehru Technological University Anantapur, India   **Aug 2016 - Sept 2020**
Bachelor of Technology in Computer Science & Engineering   *8.48/10*
Coursework: Object Oriented Design, Software Testing, Cloud Computing

Technical Skills

Programming Languages: Python, Java, JavaScript, TypeScript, C
Databases: MySQL, MongoDB, PostgreSQL
Technologies/Frameworks: React, Redux, Node.js, Express.js, REST API, Spring Boot, Microservices, Distributed Systems, Machine Learning, Bootstrap, HTML, CSS, Scrum, Agile
Cloud & DevOps: AWS (Lambda, API Gateway, DynamoDB, SQS, CloudWatch, VPC), Terraform, GitHub Actions, Docker, Kubernetes, CI/ CD, Jenkins, Linux
Tools: Git, GitHub, GitLab, Maven, Jira, Jenkins, JUnit, Jest, Mocha

Experience

Tata Consultancy Services (Adobe Inc.)   **Bengaluru, India**
Software Engineer   *Sept 2020 – May 2023*

- Developed and maintained a scalable full-stack application using React.Js (frontend), and Node.Js (backend), delivering a Workforce Management Platform for 1000+ users
- Engineered secure and high-performance RESTful APIs, optimizing request handling & reducing processing time by 30%
- Enhanced database performance by optimizing SQL queries, achieving a 20% reduction in query execution time
- Automated CI/CD pipelines using Jenkins reducing manual effort and deployment time by 20% through scheduled job executions and ServiceNow ticket generation
- Executed unit and integration tests, achieving 90%+ code coverage, enhancing software reliability and maintainability
- Performed code reviews to enforce best practices, leading to a 15% improvement in code quality and maintainability
- Collaborated with cross-functional teams in an Agile environment, streamlining requirement gathering and solution implementation, resulting in a 10% decrease in process times and 15% increase in output

Projects

Event Registration System | *React, Spring Boot, AWS Lambda, DynamoDB, Terraform*   Sep 2024 - Oct 2024

- Developed a real-time event registration system using React and Spring Boot, supporting 10,000+ users, and deployed using AWS Lambda, API Gateway, and Kubernetes for serverless operations and seamless event registration
- Integrated DynamoDB Streams & SQS for secure & real-time QR-based ticket validation, reducing check-in time by 40%
- Automated deployment with Terraform and GitHub Actions, reducing deployment time by 60%, and integrated CloudWatch monitoring for real-time performance insights and proactive debugging

Crisis Connect | *React, Node.js, Express.js, MongoDB, TypeScript*   Mar 2024 - Apr 2024

- Built a full-stack PWA for disaster response using React, Redux, Node.js, Express.js, and NoSQL Database MongoDB
- Integrated RESTful APIs and performed CRUD operations in a domain-driven design
- Leveraged feature-based APIs like Twilio, Stripe, Google Maps, Redux, and Bootstrap to implement key features

Bidding System | *MySQL, Power BI*   Nov 2023 - Dec 2023

- Designed and implemented a SQL bidding system for Marketplaces, enhancing user engagement for 500+ active users
- Designed Relational database schemas and optimized complex SQL queries to support the bidding system's functionality using Tables, Triggers, joins, Stored Procedures, Keys, and Views
- Integrated Power BI for data analytics, providing real-time insights into bidding trends

Certifications

- AWS Cloud Practitioner - Amazon Web Services
- Azure Fundamentals and Azure Data Fundamentals - Microsoft Azure
- Java Programming (Top 2%) - NPTEL IIT Kanpur