Sai Kumar Reddy Vakiti

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EDUCATION

Northeastern University, Boston MA — **Expected May 2025**
Master of Science in Computer Software Engineering
Relevant Courses: Object Oriented Design, Data Structures & Algorithms, Networks & Cloud Computing

National Institute of Technology Warangal, India — **May 2021**
Bachelor of Technology in Computer Engineering

TECHNICAL SKILLS

Programming	Java, Python, C, C++, JavaScript, Go
Web Technologies	Spring Boot, Angular, React, Express.js, Bootstrap, HTML, CSS
Cloud Technologies	Google Cloud Platform (GCP), Terraform, Packer, Docker, Kubernetes
Databases	MySQL, MongoDB, Oracle Database
Tools	Git, GitHub, Jenkins, MS Office

WORK EXPERIENCE

Deloitte Consulting Pvt Ltd. — **July 2021 - Aug 2023**
Software Engineer — *Hyderabad, India*

Provider Onboarding & Credentialing Solution | *Java, Spring Boot, Angular, PCF, Jenkins*

- Designed and built a scalable health provider management application with a responsive Angular 8 frontend and a Spring Boot backend with RESTful APIs. This solution improves provider onboarding and credentialing efficiency for the Client
- Sped up development using 30+ reusable SASS functions/modules and custom Angular themes, making it easier to maintain and keep the UI consistent across responsive web designs
- Led continuous deployment to Pivotal Cloud Foundry (PCF), designing CI/CD pipelines with Jenkins and custom scripts to smoothly release applications
- Carried out unit testing for the Angular application, achieving 85% code coverage to ensure application quality and reliability

Oracle Billing Care Optimisation | *JavaScript, HTML5, CSS3, PCM Java*

- Improved Oracle Billing Care to handle large file processing better by using batching, resulting in a 25% speed increase for this critical financial system
- Quickly learned PCM Java, Oracle Billing Care's custom language, to make REST APIs that support the new UI and simplify billing workflows

PROJECTS

Cloud Infrastructure Automation | *GCP, Terraform, Packer, GitHub Actions* — **Spring 2024**

- Developed a RESTful web application using Spring Boot, ensuring scalability and maintainability
- Automated infrastructure management on GCP with Terraform, following IaC principles
- Implemented CI/CD pipelines with GitHub Actions for automated image builds and deployments using Packer
- Utilized GCP Cloud Functions and Pub/Sub for sending and tracking email verification links, configured auto-scaling and load balancing for high availability
- Enhanced security with Customer-Managed Encryption Keys (CMEK) and configured DNS and SSL certificates for secure web access

Retail Management System Database (RMSD) | *Oracle Database, SQL, ER Modeling* — **Spring 2024**

- Developed an Oracle-based database system with ER diagrams and role-specific SQL scripts to streamline operations and enhance security
- Implemented unit testing for database procedures, ensuring robustness and reliability

Doctor Finder Application | *Node.js, React, Express.js, MongoDB* — **Fall 2023**

- Developed a full-stack application for searching nearby doctors and booking appointments, with a React frontend and Express.js/MongoDB backend
- Applied Domain-Driven Design to align the software structure and terminology with the business domain
- Implemented Redux for session management and used Leaflet for map integration to display doctor locations
- Ensured a responsive UI and performed unit testing to ensure reliability and robustness