Vamsi Deekshit Kanakavety

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EDUCATION

Master's in Computer Science **May 2025 (Expected)**
Arizona State University, Tempe, AZ **4.0 GPA**
Coursework: Foundations of Algorithms, Cloud Computing, Data Processing at Scale, Natural Language Processing, Data Visualization, Statistical Machine Learning, Artificial Intelligence, Knowledge Representation and Reasoning.

B. Tech in Electronics and Communication Engineering **May 2021**
National Institute of Technology, Nagpur, India **8.92 GPA**

SKILLS

Languages: Java, Python, C/C++, JavaScript with strong foundations in Object Oriented Programming Concepts.
Frontend: React, Tailwind CSS, Next.js, Vite, D3.js, Oracle JET.
Backend: Microservices Architecture, REST APIs, Spring Framework, Spring Boot, Spring MVC, Spring Data JPA, Flask.
Databases: Oracle-SQL, JDBC, MySQL, PL/SQL, PostgreSQL, No-SQL, MongoDB, H2.
Cloud Technologies: AWS – EC2, S3, SQS, Lambda, Cloud Watch, AMI, ECR.
Tools: JIRA, Confluence, Docker, SVN, WebLogic, Jenkins, Gradle, Maven.
Software Development Life Cycle (SDLC) with experience in Agile methodologies.

EXPERIENCE

Oracle, Pune, India: Full Stack Developer **June 2021 – June 2023**

- Played a key role in designing and developing a comprehensive end-to-end banking application for over 200 customer banks with more than 1 million active users, catering to a diverse range of corporate and retail banking needs.
- Led the modularization of a monolithic banking application to a microservices-based architecture, enhancing the product scalability, including a 20% boost in system performance, and a 30% reduction in downtime.
- Developed and integrated more than 30 RESTful web services using JAX-RS API and Jersey implementation, ensuring robust and scalable solutions for seamless communication between frontend and backend systems.
- Engineered and seamlessly integrated 10 interactive UI screens using Knockout.js and Oracle JavaScript Extension Toolkit (JET), creating responsive front-end experiences that significantly enhanced user engagement and satisfaction.
- Engaged in multiple client consultation sessions, demonstrating a strong commitment to addressing customer needs and providing valuable technical assistance and adeptly resolved more than 50 application-related bugs.
- Implemented JUnit test cases for various modules, boosting code coverage from 27% to 85%. Ensured thorough validation of all functional paths, including edge cases, significantly enhancing code reliability and maintainability.

PROJECTS

CLIP Abstraction for Zero-Shot Appearance Transfer **August 2024 – November 2024**

- Developed a modular AI pipeline for zero-shot appearance transfer by integrating LLMs (Llama 3.1, GPT-4O), CLIP, and Kandinsky, achieving seamless style-content alignment and enabling complex pattern transfer tasks.
- Designed structured JSON outputs for task decomposition and deployed a secure server architecture for GPT-4O API access, improving reproducibility, scalability, and pipeline efficiency while reducing latency.

E-Commerce Website using Spring Boot and React JS | GitHub **August 2024 – September 2024**

- Created an e-commerce application using Spring Boot, Hibernate, and PostgreSQL for the backend, and React JS for the frontend. Implemented 4 key features including RESTful APIs, JWT authentication, order and inventory management.

Job Posting Website Using React-JS and Vite | GitHub **June 2024 - August 2024**

- Built a job posting platform using React-JS and Vite, implementing CRUD functionalities for job listings. Leveraged JSON-server to simulate backend operations, managing over 50 job posts with seamless RESTful API interactions.
- Utilized JavaScript ES6+ features and JSX syntax to create reusable components, manage application state, and perform side effects with React hooks, ensuring seamless data handling and UI responsiveness.

Auto-Scaling Elastic Application on AWS: Leveraging IaaS Resources | GitHub **Jan 2024 – May 2024**

- Orchestrated the development of an elastic image recognition application on the IaaS cloud, comprising web, app, and data tiers using AWS resources. Achieved seamless scalability and efficient resource management to handle fluctuating demand.
- Leveraged Flask server in Python to integrate and host the application's web tier, efficiently managing concurrent requests. Demonstrated expertise in AWS services, using AWS CLI and boto3 for streamlined configuration and management.

POSITION OF RESPONSIBILITIES

Teaching Assistant: Knowledge Representation and Reasoning

- Supported a class of 150 students by delivering instructional assistance through office hours, online discussions, and email communication. Collaborated with faculty to optimize course materials, enhancing student outcomes and engagement.

AWARDS

- **Oracle FSGBU Pacesetter:** In recognition of continued contributions to the organization's success in back-to-back quarters.
- **New American Merit Scholarship** from Arizona State University for outstanding academic excellence.