Vijay Kiran Degala

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Software Engineer

Skilled Software Engineer with 4 years of experience in designing, developing, and maintaining scalable web applications. Expert in microservices architecture, database optimization, and enhancing user experience. Strong collaborator with cross-functional teams, proficient in various programming languages and tools, and committed to Agile methodologies

Core Competencies

- Full Stack Development
- Microservices Architecture
- Database Management
- CI/CD Pipelines
- RESTful APIs
- UI/UX Development
- Testing and Quality Assurance
- Agile Methodologies
- Project Management
- Performance Optimization
- Security
- Cross-functional Collaboration
- Machine Learning Integration
- API Development
- Continuous Improvement

Professional Experience

University of Central Florida, Orlando, United States   **August 2024 – Present**
Graduate Research Assistant

- **Developed** a responsive mobile app using **React Native**, integrating a **GPT-4o LLMs** with **RAGS** and custom functions using **Langchain** and **Faiss** vector database for breast cancer patient support, utilizing **Redux**, **Firebase**, and **RESTful APIs** for real-time communication and user engagement.
- Implemented **GCP Cloud** for secure medical data storage, integrating **Azure OpenAI** API and leveraging **OAuth 2.0** for authentication.

CVS Health, Rhode Island, United States   **August 2023 – May 2024**
Software Engineer Intern

- **Developed** responsive front-end components using **Angular.js**, **TypeScript**, and **Bootstrap**, enhancing user experience for internal applications.
- **Designed RESTful API**s and **microservices** with **Node.js** and **Express.js**, enhancing data accessibility and workflow**.**
- **Developed** Express routes for **RESTful APIs**, utilizing **Axios** to implement essential **HTTP** methods for efficient data handling and integration
- Participated in all phases of the **Software Development Life Cycle (SDLC),** from requirement gathering and design to development, testing, and deployment, ensuring high-quality deliverables and adherence to project timelines.
- **Improved** data visualization by building custom report interfaces and real-time data feeds using **SQL** and **DynamoDB**.
- **Engineered CI/CD** pipelines with **Jenkins** and **GitLab**, integrating security compliance checks for safe deployments to **Google Kubernetes Engine**.

Caspian Debt, Hyderabad, India   **July 2022 – July 2023**
Software Engineer

- **Led** development of the **Single page Application** (SPA) using **Flask**, with **REST APIs**, **Plotly/Matplotlib visuals**, **ML models** for loan assessment.
- **Designed** interactive UIs with **React.js**, utilizing **One-way data flow**, **Virtual DOM**, **JSX**, **React Native, React States, Events**, and **Redux**.
- **Worked** in a microservices architecture, breaking down monolithic apps, reducing response time by **40%**, and ensuring modular scalability.
- **Executed** unit testing, integration testing, and E2E testing using **Python** with **Selenium**, **unittest**, and **pytest**, decreasing bugs by **15%**.
- Collaborated with product managers and designers to gather requirements and deliver front-end solutions that exceeded customer expectations.
- **Designed** and optimized database schemas and stored procedures with **SQL**, improving query efficiency by **35%**.
- **Implemented** RESTful APIs using **Ajax**, **Fetch**, and **WebSockets**, reducing response time by **20%**.

Micronet Techniks, Hyderabad, India   **April 2021 – April 2022**
Software Engineer

- **Developed** a full-stack web application using **React.js** and **Django REST** Framework, leveraging Middleware and Django ORM's
- **Designed** Responsive User Interface using **React JS**, **SASS**, **JavaScript**, and **Angular**, improving user experience by **25%**.
- Managed **AWS** services like **EC2**, **S3**, **RDS**, and **Lambda**, effectively increasing performance by **20%** and reducing costs by **30%.**
- **Built** a CI/CD pipeline using **Git**, **Jenkins**, **Docker**, **ArgoCD**, and deployed the application on **Kubernetes** using **EKS**.
- **Participated** in Agile methodologies including **TDD**, daily **SCRUM meetings**, **Sprint Planning**, **Reviews**, and **Retrospectives**.

Additional Proficiencies

Programming Languages	Python, JAVA, JavaScript, TypeScript, R, Bash, Golang.
Web Technologies	jQuery, Ajax, HTML, XML, CSS, JSON, Angular JS, React JS,, Bootstrap, GraphQL, Figma, Sketch.
Tools/Services:	Flask, Django, FastAPI, NodeJS, Spring, Pyspark, Kafka Oracle, MySQL, PostgreSQL, MongoDB, MSSQL, Git, GitHub, GitLabs, Visual Studio Code, IntelliJ IDEA, Jira, Confluence, AWS, GCP, Docker, Kubernetes, OpenShift.
Additional Skills:	AI/ML, LLM's, GPT's, Microservices, Unit Testing, SCRUM, CI/CD, Debugging, Troubleshooting.

Education

University of Central Florida, Orlando, FL   **Aug 2023 - May 2025**
Master's of Science in Computer Science   GPA: 4.0/4.0