VIJAYA NEEHARIKA RANGISETTY

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EXPERIENCE

PEOPLE TECH GROUP   *Redmond, WA*
Client: Boeing - Software Engineer   (December 2024 – Present)

Web Applications and User Experience

- Led and architected enterprise-grade **React** application with modular component architecture, custom hooks for **state management (Redux)**, and context-based data flow patterns, ensuring **maintainable** and **scalable** frontend infrastructure for cross-functional engineering teams.
- Engineered **robust API integration** layer implementing centralized **service architecture with request/response** transformation, timeout handling, error boundaries, and retry logic, **reducing API failure rates** and improving application reliability across distributed backend services.
- Optimized application performance through intelligent caching strategies and persistent **state management**, reducing redundant network calls by 60%+.
- Automated deployment pipeline using **GitLab CI/CD** to build production-optimized React bundles and deploy static assets to **AWS S3**, implementing continuous delivery workflows that reduced deployment time and enabled rapid iteration cycles.

Cloud API & Database Engineering

- Architected and implemented a serverless **REST API** service using **Node.js/Express and AWS Lambda**, handling complex hierarchical data operations with **DynamoDB** single-table design patterns for optimized query performance and cost efficiency.
- Engineered batch processing pipelines with configurable concurrency controls, exponential backoff retry logic, and chunked operations to handle high-volume entitlement workflows while managing DynamoDB throughput constraints.
- Developed **RESTful API** with DynamoDB integration, implementing cursor-based **pagination** to efficiently retrieve large datasets while optimizing read capacity usage.
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PILOMATION   *Fairfax, VA*
Software Engineer   (June 2024 – December 2024)

- Architected full-stack film production SaaS platform using React and **FastAPI** microservices, implementing **API gateway** with weighted load balancing
- Owned end-to-end design of 25+ RESTful endpoints with **SQLAlchemy ORM** managing 15+ database models, **JWT authentication** with bcrypt encryption, and role-based access control, ensuring scalability across production workflows.
- Developed **AI-powered tools** including real-time budget dashboard with **Recharts** visualizations, casting platform with filterable talent database, location scouting with **Leaflet maps** and geocoding, and interactive script editor with page-turning animations.

SKILLS

FULL STACK ENGINEERING

- React, TypeScript, JavaScript, HTML/CSS, Tailwind, Bootstrap, Streamlit, Node.js, Python, Java, Spring Boot, Express.js, FastApi

CLOUD, DEVOPS

- AWS (Lambda, Api Gateway, S3, Step functions etc.), Terraform, Docker, GitHub/GitLab CI/CD, PostgreSQL, MongoDB, MySQL

EDUCATION

GEORGE MASON UNIVERSITY   *Fairfax, VA*
MS in Computer Science   3.67 / 4.0

OSMANIA UNIVERSITY   *Hyderabad, India*
BE in Computer Science   3.53 / 4.0