Vijay Kumar Reddy Gade

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Experience

University of Florida | Research Assistant   **July 2024 – Present**
- Engineered a React-based analytics platform with Python/Flask APIs to visualize terabyte-scale datasets, adopted by 10+ researchers.
- Reduced API latency by 35% by migrating legacy systems to AWS serverless architecture (Lambda, S3).
- Implemented GitHub CI/CD pipelines to automate testing, cutting deployment time by 25%.

DBYDX Technologies(Chatgen) | Full-Stack Developer   **April 2022 – April 2023**
- Developed a cloud-native HR analytics platform (AWS EC2) processing 1,000+ messages/sec, reducing data pipeline costs by 40% while improving throughput by 25x through distributed system optimization.
- Built React.js dashboards with D3.js visualizations for enterprise clients, adopted by 15+ Fortune 500 companies, enabling real-time decision-making on user engagement metrics.
- Optimized NLP-powered APIs (Python, Wit.ai) for intent detection, improving precision by 50% and reducing API latency by 30% via asynchronous Redis caching.
- Scaled back-end services (Node.js, Python/Flask) to handle 10K+ daily requests with 99% uptime, collaborating with cross-functional teams to design AWS cloud architecture.

Market Data Forecast | Software Developer-Intern   **April 2021 – March 2022**
- Architected a cloud-based HR analytics platform (AWS EC2, Lambda) processing 1,000+ messages/sec, achieving 25x throughput gains.
- Developed time-series forecasting models (Python, SQL) to predict system performance, improving stability by 20%.
- Engineered interactive front-end dashboards (React, JavaScript, D3.js) for data visualization, adopted by 15+ enterprise clients.

Projects

Social Media Analytics Engine
- Built a full-stack React/Node.js app with WebSocket integration to analyze 1M+ user interactions/day, reducing feed load time by 20%.
- Designed a GCP Kubernetes-based microservice to track engagement metrics, improving recommendation accuracy by 18%.

E-Commerce Performance Dashboard
- Developed a TypeScript/React front-end with Python/Django APIs, reducing decision-making time by 40% for 10K+ product listings.
- Scaled data pipelines using Apache Spark, achieving sub-second query performance on 10M+ records.

Social Media Content Recommender Engine
- Built a full-stack application (React, Python/Flask) with a hybrid NLP model (PyTorch/BERT) to predict user engagement on 10K+ simulated social posts, achieving 89% accuracy in recommendation relevance.
- Reduced API latency by 20% via Redis caching and asynchronous workflows, while a React dashboard boosted simulated user retention by 35% in A/B testing.
- Deployed on AWS EC2/Docker, scaling to 500+ concurrent requests with 90% uptime, demonstrating end-to-end ownership of ML-driven product development.

Technical Skills

Programming Languages:C/C++, Python, JavaScript (React, Node.js), Java, SQL, HTML5/CSS
Cloud/DevOps: AWS (EC2, Lambda, S3), GCP (Kubernetes, BigQuery), Docker, CI/CD
Frameworks: React, Flask, Spring Boot, RESTful APIs
Machine Learning & AI: PyTorch, TensorFlow, Hugging Face Transformers, Scikit-learn
Natural Language Processing: LLM Fine-tuning, Retrieval-Augmented Generation (RAG), Guardrails

Certifications and Achievements

- Python (Basic) at Hackerrank (got 5 star coder badge).
- "Google Cloud Fundamentals:Core Infrastructure" and "IT Security:Defence against the digital dark arts" on Coursera.
- Freelancing as Computer Science Subject matter expert at Chegg India Pvt. Ltd.(May 2022 – March 2023)

Education

University of Florida   **August 2023 – May 2025**
Master of Science in Computer Science   *Gainesville, FL*

Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya   **July 2018 – July 2022**
Bachelor of Engineering in Computer Science and Engineering;
Capstone Project: Designed and deployed an ML model for predictive analytics, improving accuracy by 20%.