

Venkatesh Naroju

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Summary

Full Stack Engineer with 5 years of experience building scalable web applications and cloud-native solutions. Expertise in Python, FastAPI, Flask, React.js, and AWS/Azure services. Proven record in architecting end-to-end systems, optimizing performance, and implementing robust CI/CD pipelines. Strong focus on code quality, mentorship, and delivering business value through technical excellence.

Technical Skills

Programming Languages: Python, Java, JavaScript

Frontend Technologies: React.js, React Native, Angular

Backend Frameworks: FastAPI, Flask-SQLAlchemy, Spring Boot

Databases: PostgreSQL, MySQL, DynamoDB

Cloud & DevOps: AWS (Lambda, SQS, DynamoDB, Step Functions, ECS Fargate, ECR, API Gateway, CloudWatch, X-Ray, S3, SSM), Azure (AKS, ACR, API Management, DevOps Pipelines), Terraform, Docker, Jenkins, Azure DevOps

Data Processing: Pandas, Polars (Lazy Evaluation)

Testing & Quality: pytest, Pre-commit Hooks, Ruff

AI/ML Tools: Qdrant (Vector Database), RAG Applications, GitHub Copilot, Cursor AI

Version Control: Git, GitHub, Bitbucket

Documentation: Redocly

Professional Experience

Creditsafe Technology – Hyderabad, Telangana

Full Stack Engineer (Level 1)

Apr 2024 – Present

Product: Portfolios (DataStudio) – Data matching, deduplication, and enrichment platform for company data analysis and investment insights.

- Architected FastAPI middleware orchestrating data transformation, deduplication, and import workflows between customer inputs and backend APIs.
- Refactored unstructured codebase into modular MVC architecture with Pydantic-based validation, improving maintainability and scalability.
- Managed AWS infrastructure via Terraform (Lambda, SQS, DynamoDB, Step Functions, ECS Fargate, API Gateway, CloudWatch, X-Ray, S3, SSM).
- Migrated from Pandas to Polars (lazy evaluation) achieving 20% performance improvement and reduced memory consumption.
- Designed enrichment module generating multi-format reports (HTML, CSV, JSON) with analytics and insights.
- Optimized DynamoDB performance using composite GSIs and pagination; implemented zero-data-loss migrations.
- Built extensible notification service using Factory pattern and SQS integration for Teams/Email.
- Created reusable internal core packages for logging, API clients with retry/backoff, and AWS service wrappers.
- Led Python upgrade (3.8→3.11) with zero breaking changes; maintained 90% test coverage via pytest and CI/CD gates.
- Added pre-commit hooks and Ruff linting; standardized code formatting and enforced CI style checks.
- Implemented Docker-based Lambda deployments; resolved compatibility issues with AWS layers.
- Configured CloudWatch alarms and S3 lifecycle policies for cost optimization.

- Built class-based client for DataCloud API with Redocly documentation.
- Participated in company hackathon developing RAG chatbot with Qdrant vector DB; mentored junior team members.

Yotta Tech Ports Inc. – Hyderabad, Telangana

Associate Software Engineer – I

Apr 2022 – Apr 2024

Junior IT Software Engineer Intern

Jun 2021 – Mar 2022

Intern

Dec 2020 – May 2021

- Designed multi-tenant architecture with isolated data and dynamic database connection management.
- Built modular microservices and optimized REST APIs using Flask and SQLAlchemy.
- Developed OCR-based solutions for intelligent data extraction from scanned PDFs.
- Implemented high-performance bulk data processing; optimized schema and query execution.
- Designed and implemented indexing strategies to improve API response times.
- Developed reusable decorators and performed code reviews ensuring clean, testable code.
- Built React HOCs for modular UI; integrated Redux and MSAL for authentication/authorization.
- Leveraged Azure AKS, ACR, and APIM for secure, scalable deployments.
- Implemented AWS Lambda functions for event-driven, cost-efficient processing.

Education

Kshatriya College of Engineering – Nizamabad, Telangana

Bachelor of Technology

2016–2019

Awards

- **Going Extra Mile 2025** – Creditsafe Technology, Hyderabad
- **The Engagement Champion 2023** – Yotta Tech Ports Inc., Hyderabad