

TUSHAR PANTHRI

(934) 263-3282 | tusharpanthri@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | New York, NY

PROFESSIONAL SUMMARY

Software Engineer with 3+ years building backend services, REST APIs, and distributed systems on AWS for financial clients. Hands-on with Python, Java, JavaScript, SQL, and full SDLC ownership including unit testing, CI/CD, code review, and on-call rotations. Full-stack contributor across React/Next.js frontends and FastAPI/Node.js backends, shipping production code to customers in Agile teams.

EXPERIENCE

American Express

October 2023 – August 2024

Software Engineer

Gurugram, Haryana

- Built backend services in Python with REST endpoints serving 18 U.S. commercial channels, applying OOP design and modular architecture to handle high-volume request loads with 40% reduction in p95 latency
- Owned end-to-end SDLC for ETL microservices on AWS - design, code review, unit testing, deployment - with CI/CD via GitHub Actions and CloudWatch alerting achieving 100% deployment success and 60% MoM incident reduction
- Collaborated in Agile sprints with product and frontend engineers to ship BI dashboards backed by AWS Glue, contributing to design docs, code reviews, and on-call rotations supporting production systems across stakeholders

Ameriprise Financial

May 2022 – October 2023

Software Engineer

Gurugram, Haryana

- Designed distributed data pipelines on AWS using Python, Spark, and Lambda for the Global Asset Management team, applying parallel processing and queue-based fan-out patterns to reduce daily load time by 80%
- Engineered REST API integrations between BlackRock Aladdin and Snowflake with retry logic, idempotency keys, and structured error handling, eliminating manual data movement and reducing production errors by 95%
- Deployed observability stack with AWS Lambda, CloudWatch, and Jenkins for automated monitoring, log aggregation, and alerting, supporting on-call rotations with 100% pipeline execution consistency

Ivavsys Technologies Pvt Ltd

July 2021 – April 2022

Software Engineering Intern

Pune, Maharashtra

- Developed Python forecasting services using ARIMA-LSTM models exposed via REST endpoints to process JMeter load test data and predict server SLA breaches 15-30 minutes ahead of traffic windows
- Built operational dashboards integrated with backend APIs, delivering outputs to infrastructure teams and preempting a production bottleneck during a high-traffic event

PROJECTS

PortfolioLens – Private Capital Analytics Platform | *React.js, Node.js, FastAPI, PostgreSQL, Docker*

- Full-stack analytics platform with React frontend, Node.js BFF layer, and FastAPI backend exposing REST endpoints for portfolio metrics, IRR calculations, and asset-level drill-downs across private capital holdings.
- Designed normalized PostgreSQL schema with indexed query patterns for sub-100ms response times, containerized via Docker Compose, and implemented JWT auth with role-based access control across user tiers.

LectureScribe – AI-Powered Transcription Service | *Python, FastAPI, Celery, Redis, Whisper, Docker*

- Backend service serving Whisper ML inference with int8 quantization via CTranslate2, transcribing 1-hour audio in under 5 minutes across 99 languages with auto-language detection.
- Async job queue using Celery and Redis to handle tasks up to 2 hours, with webhook-based completion notifications and structured retry logic for fault-tolerant request handling.

EDUCATION

Stony Brook University

August 2024 – May 2026

Master of Science in Computer Science and Applied Mathematics & Statistics

Stony Brook, New York

Guru Gobind Singh Indraprastha University

August 2017 – June 2021

Bachelor of Technology in Electronics and Communication

Paschim Vihar, Delhi

TECHNICAL SKILLS

Languages & OOP: Python, Java, JavaScript, TypeScript, SQL, C++, Data Structures, Algorithms, OOP Design

Backend & APIs: FastAPI, Node.js, Express, REST, GraphQL, Microservices, Redis, Celery, JWT Auth

Frontend & Cloud: React.js, Next.js, Redux, Tailwind, AWS (Lambda, S3, EC2, CloudWatch, ECS), Docker, Kubernetes

Databases & DevOps: PostgreSQL, MongoDB, MySQL, DynamoDB, CI/CD (GitHub Actions, Jenkins), Terraform

CERTIFICATIONS

AWS Certified Solutions Architect – Associate (SAA-C03) | Amazon

Databricks Certified Data Engineer Associate | Databricks