Shaik Mohammed Naveed

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SUMMARY

Python backend engineer with 2+ years building agent evaluation platforms and multi-tenant REST APIs on Google Cloud Platform. I work mainly in FastAPI, Celery, Redis and PostgreSQL, and have built MCP tool servers over JSON-RPC and a framework that benchmarks GPT, Claude and Gemini with automated SQL verifiers.

EXPERIENCE

Software Engineer (Backend & AI Systems) **Oct 2024 – Present**

Turing Enterprise Inc., Remote

AI Agent Evaluation Platforms

- Work on the gym verification service, the internal platform for authoring AI agent tasks, running them against gym environments with MCP tools, and checking in the database whether the agent did the right thing.
- Built the backend for a multi-model AI benchmarking framework, routing GPT, Claude and Gemini through identical tasks inside isolated database environments and validating outcomes with automated SQL verifiers.
- Contributed 520+ merged pull requests to a monorepo of FastAPI gym services that clone real platform APIs (GitHub, Google Drive, Slack, Teams), each with MCP tools, a per-session isolated SQLite database and seed/reset APIs.
- Shipped the AutoQC review workflow, trajectory evaluation with task versioning, and a Run Task feature that orchestrates model and run batches as Cloud Run jobs.
- Implemented Model Context Protocol (MCP) over JSON-RPC so AI agents can securely call external tools and run database queries within strict user permission scopes.

Backend & API Development

- Designed and built scalable, multi-tenant REST APIs for an enterprise collaboration platform, covering chat, channel management and event scheduling with hierarchical role-based access control.
- Built an automated workflow that validates 1,500+ Colab notebooks weekly and converts them to standard JSON using FastAPI, Celery and BigQuery. Manual QA effort dropped 90% and team client rework fell from 65% to 15%.
- Wrote a GitHub automation script that categorizes pull requests and calculates velocity metrics for engineering leadership on a daily cron job, with Plotly dashboards over BigQuery for performance reviews.

Cloud Operations Engineer (Internship) **Feb 2024 – Aug 2024**

Zscaler Inc., Bengaluru, Karnataka, India

- Automated cloud infrastructure inventory with a Python script that pulls real-time data through API calls and organizes it into Ansible-compatible formats.
- Built a tool that retrieves and displays cloud data centre details, including provisioning status and regional surcharges, so teams could plan projects against real capacity.
- Built a resource monitoring dashboard with configurable alert thresholds for anomaly detection and cost optimization across cloud accounts.

TECHNICAL SKILLS

Languages: Python, SQL, TypeScript, Bash
Backend: FastAPI, Flask, Celery, SQLAlchemy, REST APIs, asynchronous processing, pytest
Databases: PostgreSQL, SQLite, Redis, BigQuery
Cloud & DevOps: Google Cloud Platform, Cloud Run, Docker, Docker Compose, Git, Linux
AI & Protocols: Model Context Protocol, JSON-RPC, OpenEnv, LangChain, LLM integration (OpenAI, Anthropic, Google)
Frontend & Data: React, TypeScript, pandas, Plotly

PATENTS & PUBLICATIONS

Real-Time Bus Tracking and Arrival Prediction: Indian patent No. 202441013223 A, filed 23 Feb 2024. Low-latency GPS architecture behind Track N Go, a React.js and Firebase tracker with geofenced route-deviation alerts.
Home Automation using Wi-Fi: ESP32-Based System for Remote Control and Environmental Monitoring. Co-author, IEEE ICDCECE 2024. Indexed in IEEE Xplore.

EDUCATION

B.E. in Computer Science **2020 – 2024**

Ballari Institute of Technology and Management CGPA: 9.1/10

ACHIEVEMENTS & CERTIFICATIONS

- Winner, BITES Robothon for autonomous robot design. First place among 50+ teams at a full-stack hackathon.
- Certifications: Google AI Essentials, Coursera (2024). Artificial Intelligence A-Z 2025, Udemy (2025).