

Naveen Kumar M

Software Engineer

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<https://github.com/naveenkumar86420>

<https://naveenkumar86420.github.io/>

Skills:

Programming: Python, SQL, Shell Scripting, Regex, OOPS, C, C++

Backend Development: FastAPI, Flask, Django DRF, REST APIs, gRPC, microservices, API Design, Authentication (Oauth2/JWT), Swagger/OpenAPI

AI Integration: LLM, Openai, NLP, prompting

Backend Testing: Pytest (unit & API tests, automated), Postman, ZAP pentest

Infrastructure & DevOps: Docker, Linux, GitHub Actions, Nginx, Uvicorn, Gunicorn, ELK (logging), Kubernetes Basics

Cloud: Google Cloud (GCP), VM Instances, GCS, Serverless, SSH, RDP

Databases: PostgreSQL, MySQL, Redis

Tools: Git, VS Code, Automation Scripts, JIRA, Slack

Soft Skills: Problem-Solving, Teamwork, Communication, Client interaction

Education: B.E. Electrical and Electronics

Engineering – Sri Venkateswara College of Engineering 2018 – 2022 | CGPA: 8.53 | Chennai, India

Awards: BigThinkCode / Above and Beyond Q1 2025

Open Source Repos:

<https://github.com/naveenkumar86420/generic-python-rest-tester>

Portfolio:

<https://naveenkumar86420.github.io/>

Certifications: KodeKloud / Kubernetes for the Absolute Beginners - Hands-on Tutorial

Professional Summary:

Software Engineer with 3 years of experience building Python APIs and microservice components using FastAPI, Flask, and Django. Skilled in developing reusable backend templates, automating service workflows, and performing data transformations using Pandas to support backend logic and cloud-based processing. Strong in Python, REST APIs, Docker, and Linux deployments, with a focus on reliable, maintainable, and well-tested backend code. Additional experience with complex HTTP interactions and browser automation (Selenium/Scrapy), and hands-on use of LLM APIs for small automation and POC projects.

Experience:

BigThinkCode - Software Engineer

Chennai | October 2023 - Current

- Previous roles: Software Intern → Associate Software Engineer → Software Engineer
- 3 Years 2 months (9/22 to present)

Projects:

Mercari - Backend Services for eCommerce Platform

Tech: Python, Flask, GCP, ArangoDB, Scrapy, Selenium

- Built automation services using Python, Flask and Implemented data ingestion and processing logic, integrated with GCP services and contributed to scalable service workflows.

Foundation LLM - Backend Automation & Data Processing Pipelines

Tech: Python, GCP, Automation Scripts, Concurrency

- Implemented concurrency, clean-up scripts, and GCP integrations to reliably handle multi- GB data flows and ensure smooth end-to-end processing.

Clevervue - Backend for Analytics & NLP Query Engine

Tech: Python, FastAPI, Pandas, LLMs

- Developed backend modules enabling user- driven data analysis and NLP-based query processing.
- Implemented secure API logic, optimized data transformation flows and ensured privacy - safe handling of user credentials.

Python Microservice Template - Internal Backend Framework

Tech: FastAPI, REST APIs, Docker, ELK, Make, Templating

- Built a reusable Python microservice boilerplate with standardized structure, logging, and API patterns
- Provided clean documentation and tooling to help teams quickly bootstrap consistent, production-ready backend services.

Python REST Tester - API Automated Testing Framework

Tech: Python, REST APIs, Pytest, Docker, Make

- Built a modular framework to automate REST API validation for backend services, with extensible components and configurable workflows.

Throughput- Backend Enhancements for Supply Chain Platform

Tech: Django DRF, Python, Pandas, Swagger/OpenAPI, Owasp ZAP

- Improved backend API logic by restructuring filters, optimizing data operations, and refining logging and documentation.
- Contributed to architectural improvements in a Django DRF-based system, enhancing API clarity, maintainability, and performance.
- Migrated legacy API tests to a Python-based automated framework; improve release quality