





# 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:** AWS, 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. Proficient in using browser dev-tools, thus debug bugs.

### Experience:

#### BigThinkCode - Software Engineer

Chennai | October 2023 - Current

- Previous roles:
  - Software Intern – 03//2022 – 09//2022
  - Associate Software Engineer – 09//2022 – 11//2023
  - Software Engineer – 11//2023 – Present (3 years 2 months)

### 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.
- With automated scripts using CLI arguments, ensured timely release of requirements and new features.

#### 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.

#### Throughput- Backend Enhancements for Supply Chain Platform

**Tech:** Django DRF, Python, Pandas, Swagger/OpenAPI, Docker

- 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
- Dockerized entire app for both local and prod deployments
- Implemented microsoft SSO Oauth2 for this multi-tenant based web application.