SREELAKSHMI SURESH

Python Backend Developer | Junior AI Engineer

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SUMMARY

Python backend developer with 3 years of software development experience (2+ years in Python), building REST APIs with FastAPI and Django on PostgreSQL. Experienced in async API development, JWT and OAuth2 authentication, and pytest-based testing. Has integrated OpenAI and Gemini APIs into web applications and is building toward AI engineering through hands-on work with LLMs and RAG.

TECHNICAL SKILLS

Languages and Frameworks: Python (OOP, async/await), Django, Django REST Framework, FastAPI, SQLAlchemy, Django ORM
APIs and Security: REST APIs, JWT, OAuth2, Swagger/OpenAPI, Postman
Databases: PostgreSQL, MySQL, SQL Server
Cloud and Tools: AWS (S3), Git, Agile/Scrum
Testing: pytest, unittest
AI: OpenAI API, Gemini API, LLM fundamentals, RAG (foundational)
Frontend: HTML, CSS, Bootstrap, JavaScript, AJAX

WORK EXPERIENCE

Python Django Full-Stack Intern | DC Infotech, Thrissur *Apr 2025 – Jul 2026*

- Built and maintained Django web applications backed by PostgreSQL, using the Django ORM for data modeling and queries.
- Developed RESTful services and integrated third-party APIs into existing application workflows.
- Built responsive interfaces with HTML, CSS, Bootstrap, and JavaScript/AJAX connected to backend services.

Junior Programmer | Kerala University of Health Sciences, Thrissur *Dec 2023 – Apr 2024*

- Developed PostgreSQL-backed systems with indexing and query optimization, reducing query execution time by 30%.
- Designed and integrated JSON-based REST APIs for data exchange between modules.
- Diagnosed and fixed complex backend bugs through root-cause analysis, reducing recurring errors by 25%.

Program Analyst | Systalent Softwares Pvt Ltd, Kochi *Nov 2021 – Mar 2023*

- Built asynchronous FastAPI services with SQLAlchemy for the Xventum platform, improving data-processing speed by 35%.
- Implemented JWT authorization and OAuth2 login for the platform.
- Wrote pytest tests covering API endpoints, business logic, and database operations.
- Reviewed teammates' code and documented APIs with Swagger/OpenAPI and Postman.
- Worked in a Scrum team; used AWS S3 for file storage.

PROJECTS

Dora: AI Diet Assistant *FastAPI, Gemini API*

- Built a FastAPI backend that integrates the Gemini API to deliver AI-generated diet guidance.
- Designed prompts and API endpoints to handle natural-language user queries.

Hunger Bites: Food Ordering Platform *Django, DRF, MySQL, OpenAI API*

- Built REST endpoints with Django REST Framework for menu management, cart operations, and order processing.
- Integrated an OpenAI-powered chatbot that handles natural-language questions about menus and orders.

Eduspace: Placement Coordination Platform *Django, SQL Server*

- Built a multi-tenant platform connecting colleges, companies, and students, with registration, aptitude tests, mock assessments, and placement result publishing.

EDUCATION

Master of Computer Applications (MCA) | University of Calicut
Bachelor of Science in Computer Science | College of Applied Science, Nattika

CERTIFICATIONS AND COURSES

- Getting Started with AWS | Simplilearn | Mar 2026
- One Million Prompters (AI course) | Government of Dubai | Jul 2026

LANGUAGES

Malayalam (Native), English (Professional), Hindi (Proficient), Tamil (Working)