

QUANG LE

Senior Python Developer | Full Stack Engineer

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Skills

Python

4 years of experience with Python. Deep expertise in frameworks like Django, Flask, and FastAPI. Proficient in developing applications from RESTful APIs to asynchronous endpoints, and transitioning from traditional MVC to modern async-based architectures.

Working with libraries such as SQLAlchemy, psycopg2, Pydantic, Celery, PyJWT, Pandas, Numpy, OpenCV, PyPDF2, fasttext, Gunicorn, Pytest, Unittest, and more.

Skilled in coding best practices, including PEP 8 compliance, type hinting with TypeScript-inspired static analysis.

JavaScript

4 years of experience with JavaScript and TypeScript. Proficient in modern JavaScript and TypeScript, with over 3 years of expertise in React.js, complemented by extensive use of Material UI, Bootstrap, and RxJS. Additionally, 4 years of experience with advanced front-end tools and frameworks, including Redux, Svelte, Next.js, and Gatsby, delivering dynamic and scalable web applications.

Skilled in designing and implementing APIs using the Express.js library and NestJS framework, focusing on robust, maintainable backend solutions.

AI / LLM Integration

Experienced in integrating Large Language Model APIs — including **Google Gemini** and **Anthropic Claude API** — to enhance application intelligence and automate complex workflows.

Proficient in building and deploying **MCP (Model Context Protocol) servers**, enabling structured, tool-augmented LLM interactions across services.

Practiced in AI-assisted development workflows using **Claude Code** and **Cursor**, significantly improving development speed and code quality.

Databases & Infrastructure

Proficient in relational databases, including SQL Server and PostgreSQL, as well as NoSQL databases like MongoDB. Experienced in database schema design and performance troubleshooting (e.g., optimizing N+1 queries, complex condition queries, and indexing).

Extensive experience with the ELK stack (Elasticsearch, Logstash, and Kibana).

Experienced in integrating RabbitMQ for real-time data processing, utilizing techniques such as SSE, WebSockets, and both long and short polling. Skilled in leveraging Redis or Memcached to enhance read performance.

Familiar with Linux environments, Docker, and Dev Containers, enabling efficient development workflows and consistent deployment setups.

Experience

Backend Engineer — SDS Manager *(Norway, March 2022 – Present)*

- Optimized SQL queries, improving page load speed by **400%** compared to previous versions.
- Managed and optimized complex SDS file extraction processes, resolving critical bugs and enhancing extraction accuracy to approximately **95%**, significantly improving overall system reliability.
- Customized Elasticsearch scoring algorithms to deliver improved user suggestions, effectively handling cases such as user misspellings and enhancing overall search accuracy.
- Migrated resource-intensive flows, such as statistical calculations and analytical APIs, to Redis, reducing database load by **60%** and significantly improving overall system performance.
- Developed real-time data synchronization systems, increasing data freshness by **90%**.
- Established comprehensive logging and monitoring systems using Kibana and Logstash, reducing issue resolution time by **80%**.
- Built a feature-rich CMS platform using Wagtail (Django-based), incorporating GraphQL for enhanced API interaction, and customizing advanced UI/UX features for content creators.
- **Integrated LLM APIs (Google Gemini, Anthropic Claude) to automate and enhance application workflows**, reducing manual processing overhead and improving output quality.
- **Designed and implemented MCP servers** to enable structured tool-use interactions between LLMs and internal services.
- **Adopted AI-assisted development tools (Claude Code, Cursor)** to accelerate delivery and maintain high code quality standards.

Software Engineer Intern — Netpower AS *(Ho Chi Minh City, January 2022 – March 2022)*

- Gained hands-on experience developing full-stack marketplace applications for international clients using Node.js, React, Java Spring and Python.
- Learned and implemented Elasticsearch to enhance search performance.
- Explored caching mechanisms and integrated Redis to optimize application responsiveness.
- Worked with RabbitMQ for message queue management, improving asynchronous processing.
- Studied and applied role-based and attribute-based access control (RBAC & ABAC) to enhance platform security.
- Collaborated with senior engineers to refine best practices in software architecture, API development, and debugging.

Education

Bachelor of Science — Open University *(Ho Chi Minh City, September 2020 – June 2023)*

- Major in Computer Science
- GPA: 3.5/4
- Relevant Coursework: Data Structures, Algorithms, Database Systems, Software Engineering, Web Development, Artificial Intelligence.