Sergio Eduardo Vargas López

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Professional Summary

Software Engineer with 7+ years of experience in backend and cloud development. Specialized in Python (Django, FastAPI, Flask) and AWS serverless architectures, delivering scalable solutions for fintech and educational platforms. Skilled in full-stack development with React and Vue, and experienced in optimizing databases (PostgreSQL, MySQL, MongoDB) for high-performance applications. Strong communicator with experience gathering requirements, mentoring juniors, and collaborating across teams.

Work Experience

Unosquare / Harvard Business School – Fullstack Developer (Nov 2022 – Present)
- Developed backend services in Python (FastAPI) and frontend apps with React and Vue.js.
- Designed and deployed AWS serverless solutions (Lambda, RDS, CloudWatch, Secrets Manager).
- Implemented integration and unit tests, improving coverage by 35%.
- Took ownership of requirements gathering, ensuring project alignment with user needs.

EON Igniting Business – Backend Developer (Jul 2021 – Nov 2022)
- Built microservices in Python (Django, hexagonal architecture).
- Optimized PostgreSQL databases, improving query performance by 25%.
- Coordinated work with QA, business, and frontend teams in Scrum.
- Integrated PostgreSQL with Python using SQLAlchemy and psycopg2.

Paymentez – Backend Developer (Oct 2019 – Jul 2021)
- Developed microservices in Python (Django, DRF) for payment processing (50,000+ transactions monthly).
- Built payment gateway plugins in PHP for WooCommerce, Prestashop, and Magento.
- Applied PEP8 standards and implemented automated unit testing.

Intelmas – Python Developer & Linux Administrator (Jul 2018 – Oct 2019)
- Delivered client solutions using Python (Flask RESTful, MongoDB, MySQL, PHP).
- Administered Linux servers, managing scripts, directories, and debugging.
- Automated server tasks, reducing manual workload by 40%.

Education

Instituto Tecnológico de Pachuca – Computer Systems Engineer (2018)
CBTIS #8 – IT Technician (2013)

Certifications

- PCAP: Certified Associate in Python Programming (Python Institute)
- Programming Essentials in Python (Cisco Networking Academy)
- MongoDB Basics (MongoDB Inc.)
- LinkedIn Learning: Advanced Python, Python Essentials, Improve your Python Development

Technical Skills

- Languages: Python (2 & 3), Java, C/C++, JavaScript, TypeScript, PHP
- Frameworks: Django, FastAPI, Flask, React, Vue.js, Angular
- Databases: PostgreSQL, MySQL, SQL Server, MongoDB
- Cloud: AWS (Lambda, RDS, CloudWatch, Secrets Manager), GCP, Azure
- Tools: Git, GitHub, Docker, Redis, Celery
- Methodologies: Scrum, Kanban, Waterfall

Soft Skills

- Strong problem-solving and analytical skills
- Effective communicator and team collaborator
- Proactive and initiative-driven
- Focused, patient, and adaptable