

Matthew Stephen Schmitt

Backend Engineer

✉ mattschmitt010@gmail.com

📍 Cincinnati, OH, 45215, United States

Summary

Seasoned Backend Engineer with over **14 years of experience** designing and building robust, scalable backend systems using **Python and Node.js**, with deep expertise in **AI/ML integration**. Proven track record of delivering high-performance APIs, integrating AI-powered features, and optimizing infrastructure across cloud platforms (**AWS, GCP**). Adept at bridging the gap between engineering and data science teams to bring machine learning models into production. Strong foundation in **microservices** architecture, **DevOps** practices, and observability tooling. **U.S. citizen** with a passion for solving complex backend challenges and mentoring technical teams.

Skills

- **Programming Languages:** Python, Node.js, Go, Rust, Java, C/C++, Ruby, PHP, Shell Script, PowerShell, Kotlin, SQL, Swift, Elixir, Terraform
- **Databases:** MySQL, MongoDB, PostgreSQL, SQLite, Redis, Apache Cassandra, Elasticsearch, Amazon Aurora, Microsoft SQL Server, CouchDB, Neo4j, Snowflake, Oracle, PromQL
- **Libraries/Frameworks:** Anchor, Django, Flask, Spring Boot, Express.js, Ruby on Rails, NestJS, Gorilla Web Toolkit, Gin, Docker, Kubernetes, Ansible, Chef, Prometheus, Grafana, Git
- **Tools/Platforms:** PostMan, Swageer/OpenApi, Apach Kafka, gRPC, Jenkins, Gitlab, CircleCi, Travis Ci, Terraform Cloud, AWS, GCP, Azure, ELK Stack

Work Experience

Senior Backend & AI Systems Engineer

NeuralStack Labs — Remote | Apr 2023 – Present

- Designed scalable backend systems using FastAPI, LangChain, and LLMs for AI-driven customer support platforms.
- Led the integration of retrieval-augmented generation (RAG) pipelines using VectorDBs and OpenAI APIs, reducing customer inquiry response times by 60%.
- Architected asynchronous microservices with Python and Redis Queue, improving job throughput by 3x.
- Established MLOps workflows using MLflow, Docker, and Kubernetes for smooth model deployment.
- Mentored junior engineers and implemented CI/CD workflows using GitHub Actions and Terraform.

Lead Backend Developer

CloudNova Systems — San Francisco, CA | Jan 2022 – Mar 2023

- Developed and maintained RESTful and GraphQL APIs with Node.js and Express, supporting millions of monthly active users.
- Orchestrated backend integration with AI components for fraud detection and anomaly tracking using TensorFlow Serving.
- Spearheaded infrastructure migration to AWS ECS + RDS, improving deployment reliability and reducing costs by 25%.
- Established monitoring and alerting pipelines using Prometheus, Grafana, and ELK Stack.
- Implemented secure authentication/authorization using OAuth2, JWT, and AWS Cognito.

Backend Engineer / ML Integrator

CortexAI Technologies — Boston, MA | Jun 2019 – Dec 2021

- Built high-performance APIs using Python (Flask/FastAPI) for AI-powered analytics platforms.
- Integrated spaCy, Transformers, and custom classification models for document tagging and entity extraction.
- Automated data ingestion pipelines using Apache Airflow and managed datasets in PostgreSQL and MongoDB.
- Deployed containerized applications on GCP Cloud Run and Kubernetes, improving delivery agility.
- Worked closely with data scientists to productionize models and monitor inference performance.

Software Engineer (Backend Focus)

Innovatech Solutions — Seattle, WA | Feb 2017 – May 2019

- Developed backend services in Node.js and Python, including billing, notifications, and analytics modules.
- Built real-time event streaming services using Kafka and Socket.IO, improving UX for financial dashboards.
- Implemented secure REST APIs with strict audit logging and RBAC for enterprise clients.
- Worked with DevOps to containerize legacy services and deploy via Docker Compose and Ansible.
- Improved database query performance by 40% through optimized indexing and schema redesign.

Junior Backend Developer

ByteForge Inc. — Denver, CO | Jan 2015 – Jan 2017

- Supported the development of backend logic in PHP, Python, and basic Node.js scripts.
- Assisted in writing and maintaining API endpoints and improving data operations using MySQL and Redis.
- Contributed to early-stage AI experiments using scikit-learn, performing basic classification and clustering.
- Helped automate deployment processes using Bash and Jenkins, gaining early DevOps exposure.
- Collaborated with senior engineers to develop RESTful web services and integrate them with frontend apps.

Education

Bachelor of Applied Science: Computer Science, Probability and Statistics - 2016

Franklin University, 2014-2016

Columbus State Community College, 2012-2014

Certifications
