resume.pdf

ALEXANDER J. VANCE
Senior Backend Engineer / Technical Lead
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SUMMARY
Senior Backend Engineer with 9 years of experience architecting high-throughput distributed systems. Expert in Python-based microservices, relational database optimization, and cloud infrastructure. Proven track record of scaling platforms from MVP to 500k+ MAU. Currently seeking to deepen systems programming expertise during a focused technical sabbatical.

TECHNICAL SKILLS
Languages: Python (Expert), Go (Proficient), SQL, TypeScript (Prior experience), Bash
Frameworks: FastAPI, Django, Flask, SQLAlchemy, Celery, Pydantic
Infrastructure: AWS (EC2, RDS, Lambda, S3, EKS), Docker, Kubernetes, Terraform, Redis
Databases: PostgreSQL (Deep internals knowledge), MongoDB, DynamoDB
Tools: Git, CI/CD (GitHub Actions, Jenkins), Datadog, Prometheus, Pytest

PROFESSIONAL EXPERIENCE

Lead Backend Engineer | FinFlow Systems | 2020 Present
* Architected a real-time transaction processing engine using FastAPI and PostgreSQL, handling 4,000+ requests per second with sub-50ms latency.
* Migrated a monolithic Django application to a microservices architecture, reducing deployment times by 65% and improving system uptime to 99.99%.
* Optimized complex SQL queries and indexing strategies, reducing RDS CPU utilization by 40% during peak loads.
* Mentored a team of 6 engineers, establishing rigorous code review standards and automated testing benchmarks (achieved 92% coverage).

Senior Software Engineer | DataPulse Analytics | 2017 2020
* Developed scalable data ingestion pipelines using Python and Go to process 2TB of daily telemetry data.
* Implemented a custom caching layer using Redis that reduced database read heavy-load by 55%.
* Designed and maintained RESTful APIs consumed by enterprise-level dashboard applications.
* Led the transition from manual AWS provisioning to Infrastructure as Code (Terraform), resulting in reproducible staging environments.

Software Engineer | CloudScale Solutions | 2015 2017
* Built and maintained backend services for a multi-tenant SaaS platform using Django and Postgres.
* Integrated third-party payment gateways (Stripe, Plaid) and managed complex subscription state machines.
* Developed a suite of internal CLI tools in Go to automate log rotation and service

health monitoring.

EDUCATION
Bachelor of Science in Computer Science
University of Washington, Seattle

PROJECTS & CONTRIBUTIONS
* FastAPI-Contrib-Lib: Open-source maintainer for a set of utility classes for Pydantic v2 validation.
* Gopher-Queue: A lightweight, persistent task queue written in Go for educational purposes.
* Postgres-Check-Health: A Python CLI tool for identifying N+1 queries and missing indexes in Django projects.

CERTIFICATIONS
* AWS Certified Solutions Architect Professional
* Certified Kubernetes Administrator (CKA)