DAVID KIM

Senior Backend Engineer

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PROFESSIONAL SUMMARY

Senior Backend Engineer with 6+ years of experience designing and building scalable server-side applications and microservices. Expert in Python, Django, FastAPI, and cloud infrastructure. Proven track record of optimizing database performance and implementing secure, high-performance APIs.

TECHNICAL EXPERTISE

Languages: Python, SQL, JavaScript, Go

Backend Frameworks: Django, FastAPI, Flask, Django REST Framework

Databases: PostgreSQL, MySQL, MongoDB, Redis

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, CloudFormation), Docker, Kubernetes

API Development: RESTful APIs, GraphQL, API Gateway, OAuth 2.0, JWT

Testing: pytest, unittest, integration testing, TDD

CI/CD: GitHub Actions, Jenkins, GitLab CI

Message Queues: RabbitMQ, Celery, AWS SQS

Monitoring: Prometheus, Grafana, CloudWatch, Sentry

Version Control: Git, GitHub, GitLab

PROFESSIONAL EXPERIENCE

Senior Backend Engineer | TechScale Inc. | March 2021 - Present
- Architected and developed RESTful APIs using FastAPI serving 2M+ requests daily
- Designed and optimized PostgreSQL database schemas, improving query performance by 70%
- Built microservices architecture using Python, Docker, and Kubernetes
- Implemented OAuth 2.0 and JWT-based authentication and authorization systems
- Developed caching layer using Redis, reducing database load by 60%
- Deployed and managed applications on AWS (EC2, RDS, S3, Lambda)
- Wrote comprehensive unit and integration tests achieving 95% code coverage
- Established CI/CD pipelines using GitHub Actions for automated testing and deployment
- Collaborated with frontend team to design and implement API contracts
- Mentored 3 junior engineers in Python best practices and system design

Backend Engineer | DataFlow Systems | January 2019 - February 2021
- Developed scalable backend services using Django and Django REST Framework
- Built RESTful APIs for mobile and web applications
- Optimized MySQL database queries, reducing response time from 3s to 200ms
- Implemented message queue system using Celery and RabbitMQ for async processing
- Created Docker containers for consistent development and production environments
- Worked closely with DevOps team to deploy services on AWS infrastructure
- Implemented rate limiting and API security best practices
- Participated in code reviews and maintained high code quality standards

Python Developer | StartupLabs | June 2017 - December 2018
- Developed backend features using Flask and PostgreSQL
- Built RESTful APIs for web application consuming external services
- Wrote automated tests using pytest to ensure code reliability
- Deployed applications using Docker and AWS EC2
- Collaborated with cross-functional teams in agile environment

EDUCATION

Master of Science in Computer Science | University of Southern California | 2017
Bachelor of Science in Software Engineering | UC San Diego | 2015

KEY PROJECTS

E-Commerce Platform Backend (FastAPI, PostgreSQL, Redis, AWS)
- Designed scalable microservices architecture handling 50K+ daily transactions
- Implemented payment gateway integration with Stripe
- Built real-time inventory management system

Healthcare API System (Django, PostgreSQL, HIPAA Compliance)
- Developed HIPAA-compliant RESTful APIs for patient data management
- Implemented secure authentication with multi-factor authentication
- Achieved 99.9% uptime over 18-month period

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate
- AWS Certified Developer - Associate
- Python Institute PCPP (Certified Professional in Python Programming)

PUBLICATIONS & SPEAKING
- "Building Scalable APIs with FastAPI" - PyCon 2023
- "Database Optimization Strategies" - Medium (5K+ views)