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Professional Summary

Backend software engineer with 8+ years of professional experience specializing in Python development, AWS cloud infrastructure, and IoT edge systems. Expertise in building scalable, high-performance backend systems for mission-critical applications and complex device integrations. Proven track record of implementing Infrastructure as Code with Terraform and delivering production-ready solutions in Linux environments.

Experience

- **Senior Software Engineer** Jan 2021 – Present
  Tech Company Inc. *San Francisco, CA*
  - Architected and implemented Python-based backend services serving 1M+ users, improving system reliability by 40% through robust error handling and monitoring
  - Built and managed AWS cloud infrastructure using Terraform Infrastructure as Code, automating deployment pipelines and reducing provisioning time by 60%
  - Developed backend systems for IoT edge devices and physical hardware integration, optimizing performance for resource-constrained environments
  - Implemented OAuth identity solutions and secure authentication mechanisms for both cloud platforms and edge devices
  - Established comprehensive logging and monitoring systems for debugging complex distributed systems across Linux-based production environments
  - Led code quality initiatives and mentored team of 5 developers on backend architecture best practices and documentation standards
- **Software Engineer** Jun 2019 – Dec 2020
  Startup XYZ *Remote*
  - Designed and deployed scalable backend processing algorithms for real-time data analysis, handling 10K+ concurrent device connections
  - Built robust communication services facilitating data transfer between field devices, cloud infrastructure, and client applications using Python and RESTful APIs
  - Optimized core processing algorithms and implemented denoising software, improving data accuracy by 35% and reducing processing latency
  - Developed comprehensive testing frameworks and documentation following software lifecycle best practices for production deployment
  - Collaborated with hardware and product teams to translate complex device requirements into scalable backend solutions
- **Backend Developer** May 2018 – May 2019
  Software Solutions Ltd. *New York, NY*
  - Developed Python-based backend services and APIs for web applications with focus on performance optimization and scalability
  - Worked extensively with Linux command line environments for system administration, deployment automation, and troubleshooting
  - Debugged and resolved complex production issues in distributed systems, reducing critical system downtime by 30%
  - Created technical documentation and supported knowledge transfer initiatives for backend systems and deployment procedures
- **Junior Software Engineer** Sep 2016 – Apr 2018
  IoT Solutions Corp. *Berkeley, CA*
  - Developed software for IoT devices and embedded systems, gaining experience with hardware-software interaction and resource constraints
  - Contributed to C/C++ firmware development for edge computing devices and real-world physical hardware integration
  - Supported debugging efforts for complex device communication protocols and data processing pipelines

Education

- **University of California, Berkeley** Berkeley, CA
  Bachelor of Science in Computer Science; GPA: 3.8 *Sep 2014 – May 2018*

Technical Skills

- Programming Languages: Python (Expert), C/C++, JavaScript, TypeScript, SQL, Bash
- Cloud & Infrastructure: AWS, Terraform Infrastructure as Code, Docker, Kubernetes, Linux Systems
- Backend Technologies: Flask, Django, RESTful APIs, Microservices, OAuth, PostgreSQL, MongoDB, Redis
- IoT & Embedded: IoT edge environments, Hardware-software integration, Device communication protocols, Real-time processing
- Tools & Practices: Git, CI/CD pipelines, System debugging, Performance optimization, Technical documentation

Notable Projects

- IoT Device Management Platform Built Python-based backend platform managing 5K+ IoT devices with real-time data processing, AWS cloud infrastructure, and Terraform deployment automation
- Medical Device Data Pipeline Developed secure, scalable backend services for processing sensitive device data with comprehensive logging and monitoring for regulatory compliance
- Edge Computing Optimization Implemented core processing algorithms for resource-constrained edge devices, achieving 40% performance improvement through algorithm optimization and C++ integration

Certifications

- AWS Certified Solutions Architect – Associate (2022)
- AWS Certified Developer – Associate (2021)
- Terraform Associate Certification (2021)