Qi Dang

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Cloud Software Engineer

An innovative Cloud Software Engineer with solid experience specializing in designing, building, maintaining, and optimizing cloud-based applications and backend systems across AWS, Microsoft Azure, and GCP. Experienced Full Stack Developer with expertise in software development, cloud engineering, and automation, delivering high-quality solutions using Python, Node.js, and React. Proven track record in leading the development of automated CI/CD pipelines, integrating cloud monitoring and logging solutions, and streamlining deployment processes to enhance operational efficiency. Key contributor to launching large-scale projects like *HP Anyware for Windows 365* in partnership with Microsoft, ensuring scalable and reliable performance. Passionate about modern DevOps practices to automate processes, improve system reliability, and deliver seamless user experiences.

Key Skills

Software Development Life Cycle | Cloud Engineering | Automated Solutions | DevOps Practices | Quality Assurance | Testing | Project Management | Process Improvement | Troubleshooting | Problem Solving

Technologies and Languages

- **Programming Languages**: Python, JavaScript, Bash, PowerShell
- **Cloud Computing:**
    - AWS: VPC, EC2, S3, CloudWatch, SES, WAF, ELB
    - GCP: VPC, Compute Engine, Cloud Storage, Cloud Monitoring
    - Microsoft Azure: Virtual Network, Virtual Machine, App Service, App Gateway, Storage account, Key Vault, Azure Monitor
- **Web Development**: React, Node.js, Express.js, Django, Flask, Redux, Redis
- **Databases**: MongoDB, PostgreSQL, MySQL
- **DevOps & Automation**: Terraform, Ansible, Docker, Kubernetes, TeamCity, GitHub Actions, Jenkins
- **Testing & Best Practices:**
    - Techniques: Unit Testing, Integration Testing, Test-Driven Development (TDD), Load Testing
    - Tools: unittest, pytest, JTest, Jest
- **Languages**: English, Mandarin

Work Experiences

HP Inc, Vancouver, BC   **January 2023 – October 2024**
Cloud Software Engineer
- Key contributor to the launch of *HP Anyware for Windows 365*, a joint HP/Microsoft project. Collaborated with cross-functional teams to gather requirements and build solutions. Developed web applications using Node.js and React, deployed with Azure App Services to deliver intelligent orchestrations, ensuring scalability and seamless user experiences.
- Optimized system algorithms, improving processing efficiency by **30-70%**, reducing redundant operations and enhancing overall system performance.
- Designed a logging and monitoring solution with Azure Monitor, collected and filtered logs to display critical issues on a dashboard, reducing debugging time by **30%**.

- Developed and managed marketplace products on AWS and GCP, implemented automated CI/CD pipelines with TeamCity and Ansible to build cloud images, ensuring users had seamless access to the latest product versions.
- Developed and managed APIs for internal tools and services, enhancing functionality and supporting cloud-based products.
- Ensured infrastructure reliability through debugging production issues and improving engineering standards, tooling, and processes.

HP Teradici, Burnaby, BC   **September 2021 – August 2022**
Associate Software Developer Co-op
- Developed and maintained Terraform, Bash, PowerShell, and Python *cloud deployment scripts* to automate the process for customers to build the HP Anyware product (SaaS) environment on AWS and GCP.
- Integrated cloud logging and monitoring services to improve efficiency for troubleshooting and scaling on AWS and GCP, reducing log access time by **50%**.
- Participated in the full SDLC of open-source projects, including integrating AWS Session Manager and GCP IAP, from designing, implementing, to deploying, which improved secure remote access and streamlined developer workflows, reducing operational overhead by **20%**.
- Built durable interfaces for internal tools, streamlining developer productivity through automation and CI/CD pipelines.

Intellyon Inc, Burnaby, BC   **May 2021 – August 2021**
Junior Backend Developer & Systems Engineer Co-op
- Designed and maintained backend systems using Python and AWS, securing the system with a custom Web Application Firewall (WAF) that successfully rejected over **1,000** injection attempts and DDoS attacks, enhancing overall security and system resilience.
- Utilized AWS Auto Scaling and Elastic Load Balancer (ELB) to enhance application performance, reliability, and scalability, increasing backend capacity by **100%** and enabling automatic scaling to handle fluctuating traffic.
- Enhanced user experiences by integrating Python OpenCV for video processing and timeline generation.
- Developed an admin portal using Django with durable, composable data models to manage user accounts and content.
- Implemented and maintained user notification system with Python and AWS SES.
- Participated in the design and management of a PostgreSQL database, ensuring reliable data handling for business needs.

Tomley's Market, Victoria, BC   **April 2018 – April 2020**
Store Manager/Owner
- Responded to customers' inquiries, complaints, and requirements in a timely and professional manner.
- Managed weekly planning, including employee scheduling, delivery schedules, and stock management.
- Hired new employees, provided work safety training, and integrated them into the team.
- Maintained supplier relationships to ensure smooth operations.

Education

Diploma, Computer Information Technology, With Distinction   2022
British Columbia Institute of Technology, Vancouver, BC