

## 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 infrastructure**, 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, reliability, and security. Key contributor to launching **large-scale** projects like [\*HP Anyware for Windows 365\*](#) in partnership with Microsoft, ensuring scalable, reliable, and repeatable performance. Passionate about emerging **web** technologies, **DevOps** practices, and building ergonomic **APIs** to automate processes, improve system reliability, and deliver seamless user experiences while reducing operational overhead.

### Key Skills

Software Development Life Cycle (SDLC) | Cloud Engineering | Web Technologies | Automated Solutions | DevOps Principals | Quality Assurance | Project Management | Process Improvement | Troubleshooting | Problem Solving

### Technologies and Languages

- **Programming Languages:** Python, JavaScript, Bash, PowerShell, SQL
- **Cloud Computing:**
  - AWS: VPC, EC2, S3, CloudWatch, SES, WAF, ELB, Lambda, EKS
  - Microsoft Azure: Virtual Network, Virtual Machine, App Service, App Gateway, Storage account, Key Vault, Azure Monitor, AKS
  - GCP: VPC, Compute Engine, Cloud Storage, Cloud Monitoring, GKE
- **Web Development:** React, Node.js, Express.js, Django, Flask, Redux, Redis, HTML/CSS
- **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

### Work Experiences

HP Inc, Vancouver, BC

January 2023 – Present

#### Cloud Software Engineer

- Key contributor to the launch of [\*HP Anyware for Windows 365\*](#), a joint HP/Microsoft project, collaborating with cross-functional teams to build mission-critical features and ensuring scalability and reliability.
- Developed web applications using **Node.js** and **React**, leveraging **Docker** and **Azure** services to create elegant user experiences and intelligent orchestrations.
- 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%**.
- Integrated with the Microsoft Graph API, implementing a batching mechanism that reduced API calls by up to **80%**, significantly improving data upload performance and resource efficiency.
- 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.

- Established robust **rollback mechanisms** to quickly revert to previous versions in case of deployment errors, minimizing downtime and maintaining service reliability.
- Performed troubleshooting for **Kubernetes** deployments, optimizing cluster performance and resolving issues to maintain service availability.
- Contributed to the architecture, design, and testing of various system components, ensuring reliability and scalability of the application.

**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