Willson Wong

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Education

University of Arizona
December 2011 - Tucson, AZ
Bachelor of Science, Computer Science

Professional Experience

Qualcomm, Staff Engineer
September 2013 - Present, San Diego, CA

Org: Software Automation and Tools

Team: Developer Productivity

Description: Create tools, services, and applications to enhance development productivity of Qualcomm technology teams, providing DevOps solutions such as continuous integration and continuous delivery, product configuration management, issue tracking, source and artifact control, and much more

Tech: .NET, Python, TypeScript, React, Node.js, Terraform, AWS, Containers and Kubernetes, MySQL

Project: WAAS was a project to create a custom continuous integration and delivery platform with a cloud-native, robust feature set used by developers to continuously integrate, build and release their code (think Circle CI, but in-house built)

- Created user interface with React and Figma (library stack included Jotai, Axios, chartjs, Tailwind, Jest)
- Built AWS infrastructure (infrastructure as code using Terraform) and on-prem infrastructure (using Ansible)
- Pipeline and workflow engine with Jenkins, deployed using Helm Chart to AWS EKS
- Maintained 27+ microservices in a large monorepo
  - .NET or Python web services containerized and deployed using Kubernetes and Rancher
  - Node.js and TypeScript web services without on-prem dependencies deployed as AWS Lambdas
  - Monorepo build system and continuous integration with NX (nx.dev)

Project: DCE was a project to scale existing legacy build infrastructure using a cloud data center extension model

- Migrate existing legacy on-prem infrastructure to cloud infrastructure (AWS) using container technologies
- Migrate legacy SOAP monolithic web service by building scalable containerized microservices behind an API Gateway (Kong) and using Kubernetes

Sogeti, Consultant
March 2012 – September 2013, Phoenix, Arizona

Description: Various contracted developer and engineering positions working on web applications and web services

Tech: .NET, MSSQL, HTML, CSS, JavaScript

- **Medtronic, Engineer:** Built web services for internal tools and automation
- **BlueCross BlueShield of Arizona, Engineer**: Built new front-end client for consuming existing back-end APIs
- **LifeLock, Web Developer:** Refactored customer-facing web application to be mobile-friendly using responsive web design

Skills and Tech

Python, C#, TypeScript and React, SQL (MySQL and MSSQL), AWS, Terraform, Container Technologies (Docker, Kubernetes, Rancher), git, Perforce, Jenkins, TFS