# Jason Wong

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## Experience

### Systems Administrator
December 2023 - Present

*F&A Federal Credit Union*

- Manage operations and configuration of server infrastructure, ensuring a secure and high-performance hybrid cloud environment
- Monitor network performance and troubleshoot network outages, minimizing downtime and ensuring high availability
- Configure and maintain network security systems, including firewalls, intrusion detection systems, and VPNs to protect sensitive data, ensuring compliance with industry standards and regulations
- Administer and maintain **Active Directory** and **Azure AD** environments, including user and group management, and group policy
- Conducted incident response and post-mortem analysis, contributing to continuous improvement of system reliability and security
- Compose documentation for system configurations and procedures, ensuring consistency and facilitating knowledge transfer
- Develop automations with **Python** and **Windows Powershell** to streamline and optimize IT operations, including user provisioning and deprovisioning, workstation and server configuration, and software installation
- Plan and execute software installation and patching for a fleet of 200+ workstations, bare metal servers, and virtual machines

### Software Development Engineer Intern
May 2022 - August 2022

*Amazon*

- Develop internal tooling with **Python** that integrates with the **ETL Pipeline**, enabling the Customer Interests team to efficiently aggregate and convert thousands of binary labeling data into high confidence datasets to train and benchmark the performance of their machine learning models and recommendation algorithms, serving more relevant product recommendations to Amazon shoppers
- Create an **AWS CDK** application in **TypeScript** to programmatically provision and configure resources, including **AWS Lambda** functions, **DynamoDB** databases, and **IAM** users to distribute read and write permissions
- Implement unit and integration tests in **Pytest** with 100% branch and statement coverage where applicable
- Configure and deploy the CI/CD infrastructure in TypeScript through AWS CDK and CloudFormation

### Frontend Developer
September 2021 - February 2022

*California State University, Fullerton*

- Spearheaded the creation of a mobile-responsive frontend using **React (Next.js)** for **TuffyHacks**, a student-run, MLH-sponsored hackathon, featuring an impactful landing page that reached and engaged a global audience of thousands of students and a dashboard that facilitated team formation and showcased real-time event updates and announcements
- Architected backend infrastructure, leveraging **AWS Lambda** functions and a **PostgreSQL** database, enabling participants to effortlessly establish and join teams through personalized invite links, achieving exceptional performance by ensuring 100% uptime and minimal latency, amidst peak traffic from hundreds of users

### Mobile and Backend Engineer Intern
June 2020 - September 2020

*Twiine*

- Spearheaded the development of the Minimum Viable Product (MVP) for a date and hangout planning mobile application using **Flutter**
- Designed and implemented key app features, including the planning and user profile interfaces, incorporating real-time updates for request acceptances and profile changes
- Orchestrated a seamless user experience by crafting a secure and efficient login and signup flow, integrating **OpenID** and **OAuth** protocols for streamlined authentication via Google, Facebook, and Email
- Implement **REST API** endpoints to enable users to schedule hangouts and extend invitations to fellow users seamlessly

## Projects

### Twofivefour *Svelte, Typescript, TailwindCSS, OpenAI*

- An **AI**-powered coding assistant to help developers understand and document their code by explaining code snippets, translating between programming languages, documenting functions, and calculating time complexity of functions

### Spotify Seasonal Playlist Creator *Javascript, Python, Flask, Spotify REST API, Next.js, Docker Compose, NGINX*

- A web app that places liked songs into playlists grouped by seasons. Currently serving a user base of 20+ individuals

## Education

### California State University, Fullerton

*Bachelor of Science in Computer Science, Minor in Mathematics*

## Skills

**Languages**: JavaScript/TypeScript, HTML/CSS, Python, C++, Rust, Go, Java, LaTeX, Dart, SQL, R, MATLAB

**Web**: React, Next.js, Svelte, Vue, jQuery, Figma, TailwindCSS, SCSS, 11ty, Express.js, Flask, FastAPI, Node.js, PostgreSQL, SQLite, MySQL

**DevOps**: Amazon Web Services, Microsoft Azure, VMware ESXi, Ansible, Firebase, Docker, NGINX, Apache, Terraform