

RYSON W. WONG

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Skills

Languages (Proficient): Python, C#, Java, C++, JavaScript, HTML/CSS, MySQL, Bash

Certifications / Licenses: CompTIA Network+, LPI Linux Essentials, CompTIA Security+, CompTIA ITF+, ITS-305: Software Development in C#, Microsoft AZ-900, FCC General Radio Operator License, AWS Cloud Practitioner, **TS/SCI**

Technologies: Cloud Computing, Git, Network Automation, Linux/Unix, TCP/IP, ASP.NET, ReactJS, AngularJS, NodeJS

Education

Western Governors University

Bachelor of Science in Computer Science

June 2021 – Present

Expected Graduation, Dec 2025

Work Experience

Amazon | Seattle, WA

Sep 2024 - Dec 2024

SDE Intern / EC2 Load Balancing

- Designed and implemented PatchingPilot, an enterprise-wide automated alerting system that detects potential patching issues during critical rollout cycles, effectively managing a global ELB fleet of over 12 million nodes, including ADC regions to adhere to FedRAMP patching standards
- Onboarded five cross-functional teams to utilize PatchingPilot, enhancing patch management efficiency and ensuring consistent deployment practices across the organization
- Fixed critical bugs for ELB patching services, ensuring seamless and reliable deployments during patching updates.

Microsoft | Redmond, WA

May 2024 - Aug 2024

SWE Intern / AEP Silver & Sovereign

- Implemented an automated egress workflow that enhanced the build-out operations for Azure's cloud offerings, including Public, Sovereign, and Air-Gapped clouds, by over 55%
- Contributed to the execution of CloudSprout, a multi-cloud offering providing a centralized registry of configuration values, ensuring seamless integration and configuration management across diverse cloud environments.
- Developed and deployed an end-to-end automated workflow utilizing the internal tool "Drift-In-Parity" to detect configuration value changes and raise automated Pull Requests, significantly reducing manual effort and error rates.

NASA JPL | Pasadena, CA

Oct 2023 - Jan 2024

SWE Intern / IT Special Programs and Engineering Directorate

- Developed a comprehensive dashboard using Django and TypeScript to optimize part management for hundreds of internal employees.
- Implemented Ansible playbooks to automate system provisioning and configuration, resulting in a 30% reduction in deployment time for critical resources.
- Integrated NetApp's ONTAP storage solution through a custom-built full-stack web part, enhancing storage efficiency for internal NASA JPL SharePoint sites in an air-gapped environment.

Amazon | Seattle, WA

May 2023 - August 2023

SDE Intern / EC2 Load Balancing

- Led the development and design of a mock Identity Provider (IdP) internal tool, which greatly improved the authentication testing process for the AWS Application Load Balancing (ALB) software, boosting productivity and reducing testing time.
- Created End-To-End Tests through a mock IdP internal tool, which improved ALB reliability by 40% for customers who use external Identity Providers during the authentication process.
- Furthered the efficiency and performance of the ALB software through the fast resolution of various software bugs, which improved ALB user experience and reliability for millions of users.
- Coordinated with cross-functional teams and stakeholders to ensure the developed IdP tool adhered to partition-specific standards and compliance requirements across various AWS Cloud environments, thereby promoting widespread usability and adoption for in-house testing.

Hawaii Air/Space National Guard | Kekaha, Hawaii

March 2018 - March 2024

Staff Sergeant / Cyber Defense Operator

- Engineered bash and python scripts for automatic deployment of equipment, which improved efficiency by 70%
- Staged HF/VHF/SHF/UHF radios and various networking technologies to transfer local/remote data and voice
- Used and managed virtual networking, virtual machines, and related technologies to plan and optimize private networks.
- Deployed several satellite communication kits to provide commercial internet for personnel in a deployed environment.