

HO LUN (ALAN) YEUNG

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EDUCATION

University of Washington - Seattle GPA: 3.75/4.00

Seattle, WA

Bachelor of Engineering, Computer Engineering

June 2021 - June 2023

Annual Dean's List in 2022-2023

Relevant Coursework: Software Engineering; System programming; Algorithms; Networking; Hardware Software Interface; FPGA

WORK EXPERIENCE

AMAZON WEB SERVICES.

Seattle, WA

Cloud Support Associate Intern

June 2022 – August 2022

- Proficient in **AWS S3** and other managed services, adept at designing fault-tolerant serverless solutions for seamless scalability and high availability.
- Expert in designing **complex multi-tier network architecture** that meets compliance requirements

AROSOS. (Open source)

Seattle, WA

Software Engineer

2018 – Present

- Utilized **Golang** and **Bash** to build the backend of Arosos, an open-source web operating system (rated ~1300 stars on Github and ranked 3rd in web desktop topics) which can run on **Raspberry Pi**
- Overhauled obsolete legacy source code of two production applications, resulting in increased usability and reduced run time performance by half
- Reduced web desktop loading time by 3x and web page response time from 700ms to 100ms by refining the logic and reducing the amount of AJAX calls

AYTechnology.

Seattle, WA

Freelance Programmer

2020 – June 2022

- Developed full-stack web apps for clients such as files database systems by using **PHP** and **golang** as backend
- Created a database system for the client and cut down the search time from 2-3 minutes to just a minute
- **Tech Stack: C/C++ or PHP or golang & MySQL**

PERSONAL PROJECTS

Phone Call Enhancement

- Designed and implemented both the **Go** server and **Android** client to record and transmit voice
- Real-time voice chatting with a noise suppression system to enhance quality by an average of 30%

Central Authentication Service Provider

- Improved by 20% compared with PHP-based, the **Golang-based** server effectively reduces load time.
- **OpenID Connect** and **SAML** authentication to authenticate across different applications like Gitlab CE
- Unification of the server's sign-in user experience as well as enhancing the server security

Home Automation

- Automates house routines such as turning on lights by detecting the motion
- Integrate Homekit with **ESP8266** and **MQTT** as the microcontroller to control the power relay
- Users can use iPhone and its Home app to automate the procedure

SKILLS

Technical Skills: C/C++, Java, Golang, SQL, Web programming, Linux shell scripting, Android App

Certification: AWS Certified Solutions Architect - Associate

Languages: Fluent in Chinese (Cantonese and Mandarin) and English