John Ahn

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Education and Awards

University of British Columbia Vancouver, BC

Bachelor of Computer Science *Expected December 2024*

- Accepted research paper at the 38th International Conference on Software Maintenance and Evolution (ICSME), **Distinguished Paper Award**, 2022 (23% acceptance rate).
- Awarded **Project of the Year** at IBM's CASCONxEVOKE 2022 Conference.
- Awarded **NSERC Undergraduate Student Research Award**.
- WAM/GPA: 86%

Experience

Elastic Path Jan 2023 – Aug 2023

Software Developer Intern *Vancouver, BC*

- Contributed to the construction of a microservices-based backend system for e-commerce platforms.
- Oversaw a suite of Go-based microservices dedicated to managing user accounts and store-related functionalities.
- Implemented an organizational framework to facilitate seamless data exchange across diverse store environments, simplifying integration through the deployment of REST APIs.
- Introduced a Role-Based Access Control (RBAC) system within Elastic Path's customer support dashboard, granting internal administrators the ability to define and assign various roles to users.
- Elevated the security of user authentication by implementing geolocation-based validation for password reset requests, ensuring users receive alerts for suspicious request locations.
- Deployed a range of user authentication methods, including username and password, client credentials, and JWT, to accommodate various security and access needs.
- Achieved a **150% increase** in the scrum team's velocity.

NetApp May 2022 – Sept 2022

Software Developer Intern *Vancouver, BC*

- Worked to develop a native engine that provides real-time analytics of NetApp's distributed file system.
- Pinpointed software defects and worked alongside QA and SW teams on solutions and implementation.
- Collaborated with senior developers to improve the automated testing of Data ONTAP features in Python and Perl.

The Reliable, Secure, and Sustainable Software Lab Jan 2021 – Jul 2022

Research Assistant (IBM Center for Advanced Studies) *Vancouver, BC*

- Researched innovative approaches for breaking down monolithic applications into microservices.
- Engineered an unsupervised ML solution in Python to refactor Java monolithic applications into k-partitions (microservices), using structural and semantic dependencies from the source code.
- Developed a full stack web application with React and Flask to provide users a multifaceted view of different microservice recommendations of their application.

Projects

UBC Sailbot

- Led the website team as part of a student-centered engineering design group specializing in the development of autonomous sailboats.
- Created a full-stack web application utilizing React and Redux within the Next.js framework to provide real-time monitoring of the sailboat's diagnostic data and GPS coordinates. All data was securely stored in MongoDB.

Neural Notes

- An Android app developed in Java that utilizes machine learning to read and perform musical scores.
- Developed and trained a CRNN model using PyTorch to analyze and categorize musical notations.

Technical Skills

Languages: Python, Java, JavaScript, Golang, C++, C, HTML/CSS
Frameworks: MySQL, Typescript, Redux, React, NodeJS, Flask, nginx, Maven, Docker, Git, Datadog