John Ahn

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Education

University of British Columbia Vancouver, BC
Bachelor of Computer Science *Expected May 2024*

- WAM/GPA: 86%

Technical Skills

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

Experience

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

- Researched novel methods to decompose monolithic applications to microservices.
- Engineered an unsupervised ML solution in Python to refactor Java monolithic applications into k-partitions (microservices), utilizing structural and semantic dependencies from the source code to find optimal microservices candidates .
- Developed a full stack web application with React and Flask to provide users a multifaceted view of different microservice recommendations of their application.
- Accepted research paper at the 38th International Conference on Software Maintenance and Evolution (ICSME), 2022 (23% acceptance rate).

UBC Sailbot Sept. 2019 – Dec 2021
Software Developer *Vancouver, BC*

- Developed a full stack web application with React and FastAPI to monitor the sailboat's diagnostic data and GPS coordinates real time; stored the data in a MongoDB Atlas cluster.
- Implemented REST interface used to relay the boat's computed path between ROS nodes and a custom network table over ethernet and satellite.
- Constructed scripts integrated into system's CI to validate the path and integrity of transmitted data.

Projects

Neural Notes

- A Java Android app that reads and play-backs a musical score using machine learning.
- Designed and trained a Pytorch-based CRNN model to analyze and classify musical notation.

Snowball (nwHacks2021)

- An IOS virtual pet app developed in Swift.
- Implemented features so that the pet uniquely responds to different smartphone gestures/features such as touching, swiping, shaking, and voice recognition.

Insight UBC

- A full stack web application that allows users to effectively query historical grade distributions of courses on the UBC campus.
- Developed in Typescript using React and Express; verified correctness by creating test suites with Mocha and Chai.