

John Ahn

Vancouver, BC, CANADA

✉ john.ahn.es@gmail.com | 🏠 johnahn.dev | 📧 jahn18 | 🌐 johnahn- /

Education

University of British Columbia

B.SC. IN COMPUTER SCIENCE

Vancouver, Canada

Expected May 2024

- **Dean's Honour List** (Cumulative GPA: 3.90/4.00 or 86%)

Skills

Programming Languages: Python, Java, JavaScript, HTML/CSS

Frameworks and Tools: MySQL, Typescript, Redux, React, NodeJS, Flask, nginx, Maven, Git

Experience

The Reliable, Secure, and Sustainable Software Lab

Vancouver, Canada

UNDERGRADUATE RESEARCH ASSISTANT (NSERC Research Award, IBM Center for Advanced Studies)

Jan. 2021 - Present

- Researching automated solutions to improve the migration process from a monolithic application to a microservice-based architecture.
- Developed Python scripts to help users refactor their Java monolith to microservices by highlighting strong structural and semantic dependencies in the source code.
- Developed a full stack web application with React and Flask to help users visualize different microservice recommendations of their monolithic application and perform a comparative analysis of the recommendations.
- Accepted exhibit at IBM CASCON x EVOKE International Conference, 2021.

UBC Sailbot

Vancouver, Canada

SOFTWARE DEVELOPER

Sept. 2019 - Dec. 2021

- Developed a full stack web application with React and FastAPI to monitor the autonomous sailboat's sensor data and GPS coordinates.
- Managed all sensor data in a MongoDB Atlas cluster.
- Used Jira and Git to assign tasks and resolve issues, developing documentation and collaboration skills.

Projects

Music Sheet Reading AI

- A Java Android app that can play-back a musical score that a user captures using his or her mobile camera.
- Developed and trained a Pytorch-based machine learning model to analyze and classify musical notation.

Insight UBC

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

Virtual Pet App

- Partnered with three other team-mates to develop an IOS virtual pet app at nwHacks2021.
- Implemented features so that the pet uniquely responds to different smartphone gestures/features such as touching, swiping, shaking, and voice recognition.

Mediator Service for Wikipedia

- A query engine that allows users to fetch data from any Wikipedia page.
- Developed in Java SE 8; implemented core OOP principles and utilized a JUnit test-driven development process.

Activities

- UBC Piano Trio: a pianist that plays actively in concerts/competitions at UBC.
- UBC Koinonia: an active team leader in a christian club at UBC; conduct and lead prayer meetings.
- Math Tutor: conduct one-on-one tutoring sessions for high-school students online.