

# Allan Tan

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## EDUCATION

### The University of British Columbia

Vancouver, BC

Bachelor of Science, Major in Computer Science, GPA: 90%

September 2021 - May 2025 (Expected)

- Relevant Coursework: Java OOP/OOD, Data Structures and Algorithms, Computer Systems
- Awards: Dean's Honour Roll (2022)
- Activities: UBC BizTech Hackathon Director, UBC CSSS Volunteer Officer, UBC SUS Webmaster

## TECHNICAL SKILLS

**Languages:** Java, C#, JavaScript, Python, C++, SQL

**Tools and Frameworks:** React, Node, MongoDB, ASP.NET, Docker, Kubernetes

## EXPERIENCE

### Software Engineer Intern

January 2023 - Present

CoPilot AI (Platform Team)

Vancouver, BC

- Improved network stability by deploying a scalable SOCKS proxy **docker** container via **Azure Container Instances** and **Azure Kubernetes Service**, resolving **5000+** exceptions caused by clogged SSH tunnels
- Architected and automated deployment of an exception logger using **Azure Logic Apps** and **YAML**, resulting a **60% reduction in bug fix times** and enhanced backend observability with real-time Slack alerts
- Implemented application logging across multiple **ASP.NET Core micro-services** and **Azure Functions**, uncovering 10000+ daily production level exceptions
- Streamlined **Azure CI/CD** pipelines by utilizing parallel jobs, reducing release times from **40 to 8 minutes**

### Software Developer

September 2022 - December 2022

Edium (Technology Startup)

Vancouver, BC

- Developed a redesigned, feature-rich web app using modular **React** components and **server-side rendering** and optimized Firestore queries, contributing to a **400% increase of website traffic**
- Integrated Microsoft Clarity analytics to facilitate data-driven feature optimizations and identify user pain points

### Teaching Assistant

September 2022 - December 2022

University of British Columbia

Vancouver, BC

- Lead weekly CPSC 110 (Computation, Programs, and Programming) labs for **over 60** students
- Reviewed code and clarified **functional programming** concepts in **Racket** including basic data structures and recursive algorithms and achieved an **overall favorable rating of 95%** from surveyed students

## PROJECTS

### Labby | React, Redux, Express, Node, MySQL, AWS (S3, RDS)

January 2023 - Present

- Collaborated with a team of 10 to develop a lab ticket management system for BC Cancer Foundation, allowing lab staff to efficiently track and manage patient samples throughout the testing process
- Integrated **AWS S3** to allow for secure and scalable image storage to enable easy access to patient images
- Implemented **SQL database** procedures and **RESTful** endpoints to facilitate seamless, secure **CRUD** operations on user data stored in **AWS RDS**

### Ducky | Stanford TreeHacks | React, MUI, Express, Node, MongoDB

February 2023

- Developed an AI chat bot that enhances retention rate through active recall to improve study habits
- Implemented custom backend endpoints to build a text processing system using OpenAI's GPT-3 API and a **NoSQL MongoDB database** to store and process user data
- Connected the frontend and backend using **Axios HTTP requests** and utilized **React hooks** and **MUI** deliver a unique user experience