




Alan Wang

✉ alan.wang2@uwaterloo.ca  alanwang.xyz  [@AlanWang1](https://github.com/AlanWang1)  [in/alan-wang11](https://in.linkedin.com/in/alan-wang11)

EDUCATION

University of Waterloo

Bachelor of Computer Science

Sept 2020 - Apr 2025

Waterloo, Ontario

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Databases, Data-intensive Distributed Systems, Intro to Artificial Intelligence

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Java, Kotlin, HTML/CSS, C++, C, SQL

Technologies: React/React Native, Redux, Next.js, Angular, Node.js, Express, Spring Boot

Tools: Git, Docker, Azure, Kubernetes, Terraform, PostgreSQL, MySQL, MongoDB, Splunk, Jenkins

EXPERIENCE

Manulife Financial

Sept 2023 - Dec 2023

Cloud Engineering Intern

Toronto, ON

- Led development of cloud status page in **Angular** and **TypeScript**, serving live status and version info for **200+ monthly active users**
- Implemented automation using **Python** and **Github Actions** to fulfill **40+ cloud platform requests per week**, saving **8+ hours**
- Wrote **Terraform** files for provisioning **Azure resources** and **Github Actions** for **CI/CD pipelines**, streamlining development and upgrade process for status page and other tools
- Built provisioning **CLI tools** and **automation jobs** using **Python**, improving cloud platform tool accessibility company-wide and increasing overall use by **12%**

Canadian Imperial Bank of Commerce

Jan 2023 - Apr 2023

Backend Developer Intern

Toronto, ON

- Developed cards API changes to deliver Smart Planner to **300,000+ credit card only users**, using **Java**, **Spring Boot** and **MySQL**
- Built and refactored account information backend services and data objects to enable new Smart Planner Features
- **Decreased build times by 17%** for account information micro-service by overhauling integration test suite
- Debugged and fixed **25+ critical production issues**, analyzing logs in **Splunk** and managing redeployments in **Opsshift**

PointClickCare

May 2022 - Aug 2022

Software Engineering Intern

Waterloo, ON

- Led development of new REST API endpoint to autofill PDF medical forms from XML form data, using **Kotlin** and **Spring Boot**
- Built backend service to use **Azure file storage** to save/retrieve PDF templates, for new medical form flow
- **Reduced dev environment startup by 25%** by optimizing **SQL stored procedures and queries** for manipulating test data
- Wrote **unit tests** in Kotlin, and **end-to-end tests in Cypress**, increasing **overall test coverage by 20%**

PBSC Urban Solutions


May 2021 - Aug 2021

Software Developer Intern

Longueuil, QC (remote)

- Implemented **bluetooth connectivity** in **React Native** for locking e-bikes in geofenced areas, garnering **4000+ users in first month**
- Developed new mobile UI components and views for bike provider payment flows, using **TypeScript**, **React Native**, and **Redux**
- Spearheaded new automated end-to-end testing system using **Mocha**, **Appium** and **WebdriverIO**, speeding up **regression workflow by 30%**
- Wrote **unit and snapshot tests** using **Jest** and **Enzyme**, increasing app's **overall test coverage from 42% to 70%**

PROJECTS

Aitomind | *React, Node.js, Express, Azure, MongoDB* 

- Developed full stack web app that transcribes speech from educational videos and generates conceptual mindmaps
- Built responsive frontend in **React**, and backend services and RESTful endpoints in **Node.js** and **Express**
- Leveraged **Azure Cognitive Services REST APIs**, and **deployed ML model on Azure** to extract connected keywords and concepts
- Connected backend to **MongoDB** to store mindmaps, using **Mongoose** object modelling library to define schema of mindmaps

Personal Interests: Digital Ethics, Music Production, Guitar, Martial Arts, Philosophy, Art History