





# Weiyong Tan

**BSc in Computer Science** @University of British Columbia, Vancouver BC  
GPA 3.80 | Grad May 2023

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## SKILLS

**Languages:** JavaScript | Typescript | Java | Python | C# | Ruby | SQL | HTML/CSS | C++ | C

**Tools:** React | Spring | Rails | MongoDB | Express | Node | Firebase | Xamarin | Azure | Heroku | Vercel | Unity

**Courses:** Advanced Algorithms | Fullstack Web Development | Hardware and OS | Databases | Artificial Intelligence

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## EXPERIENCES

**Software Developer Engineer Intern — Amazon Web Services (Elasticache)**, Vancouver, BC May 2022 - Aug 2022

- Designed and developed a new prioritization system for Redis/Memcached node recovery, optimizing workflows in the case of large-scale catastrophic events.
- Ensured low latency and high availability (**SLA 99.99%**) for Elasticache users, leveraging Java, Spring, and SQL.

**Open Source Developer — BlackBerry**, Waterloo, ON

Jan 2022 - Apr 2022

- Automated the legal analysis of all internal repositories by asynchronously parsing their dependencies and checking their licenses, cutting down time taken by open source analysts by **98.5%**.
- Utilized Python, Selenium, and FlexNet Code Insight to scrape, sort, and format code matches between internal and external sources; saving analysts **10+ hours per scan** and enabling source match classification via Machine Learning.

**Frontend UX Developer — Galvanize**, Vancouver, BC

Aug 2021 - Dec 2021

- Redesigned pages and components, improved UX, and refactored React components to the latest frameworks such as Styled Components, Redux, and React Query.
- Developed an internal tool that uses development effort and usage to calculate the effectiveness of each component, allowing the UX team to make informed decisions on which components to prioritize.

**Mobile App Developer — BGC Engineering**, Vancouver, BC

Jan 2021 - Aug 2021

- Provided **300+** geoengineers abilities to import, reorder, zoom, highlight, and tweak the opacity of ArcGIS map layers during fieldwork, through new features built with Xamarin and C#.
- Implemented offline data transfer and sync, allowing engineers to send encrypted data between iPads without internet, merge versions through in-house version control, and sync to the web when online again.
- Enhanced UX by simplifying workflow and implementing form search and autofill, reducing taps by **66.6%**.

**Fullstack Developer — Integration Hive**, Vancouver, BC

Oct 2020 - Dec 2020

- Improved UX by minimizing clicks, simplifying menus, and setting up a chatbot using TalkJS.
  - Cultivated good practices within the team by introducing Git version control and Github Actions CI/CD.
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## PROJECTS

**InvestoBull** (Co-founded Venture)

May 2021 - Aug 2021

- Led frontend development of this web app using React and ChakraUI, and hosted it on Vercel with CI/CD.
- Authenticated users with Firebase Auth, and accessed user data using snapshots in Cloud Firestore.
- Generated stock price predictions using Azure AutoML models trained with time-series data.

**Gym Autobook** (Personal)

Jan 2021 - Aug 2021

- Automated the gym session booking process by using CypressJS to select and fill in required fields.
- Scheduled a cron job that executes the script on specific days using Github Actions.

**Food for Thought** (Hackathon - NWHacks)

Jan 2020

- Connected the HTML/JavaScript/Bootstrap frontend with the Cloud Firestore database.
  - Integrated map services using Google Maps API, and hosted the web app on Google Cloud Platform.
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## EXTRACURRICULAR

**Musical Director, Head Musical Director**, UBC A Cappella

May 2020 - present

- Led the club choir of 200+ members, organized auditions, arranged music, mixed audio, and planned events.