

# Aaron Ma

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## EDUCATION

### University of British Columbia

Bachelor of Computer Science (**BCS**) – Ongoing

Bachelor of Arts (**BA**) in Psychology, Minor in Commerce with Distinction – Completed

Vancouver, BC

Sep 2023 – May 2027

May 2022

## TECHNICAL SKILLS

**Languages:** HTML, CSS, JavaScript, TypeScript, Python, Java, C, C++, R, SQL

**Frameworks:** React, Angular, Express, Django, Flask, pytest, JUnit, Mocha, Chai, Jasmine, Karma, Spring, Spring Boot

**Tools/Platforms:** Node.js, Oracle, MongoDB, Docker, Postman, PostgreSQL, Tableau, AWS, Jira

**Libraries:** Redux, RxJS, NgRx, pandas, numPy, scikit-learn, matplotlib, plotly, altair, recharts, Tailwindcss, D3.js, axios

## WORK EXPERIENCE

### SS&C Technologies

Full-Stack Developer Intern

Toronto, ON

Sep 2025 – May 2026

- Creating **Angular** frontend prototype for a Data Object Designer product with **PrimeNG**, **NgRx**, and **RxJs**
- Developing and testing components in **TypeScript** using **Jasmine**, **Karma** for UX Builder and Chorus products
- Building and maintaining **RESTful APIs** with **Java**, **Spring**, **Spring Boot**, and **Postman**
- Utilizing **AWS CI/CD pipelines** to automate application builds, testing, and deployments across services
- Triaging and resolving software bugs across frontend and backend systems using **Jira** in collaboration with QA

### SAP

Customer Success Marketing & Communications Specialist Intern

Vancouver, BC

Dec 2022 – Aug 2023

- Used **pandas** & **numPy** to automate data cleansing & manipulation processes, increasing efficiencies by on average 98%
- Spearheaded CS data dashboard with **SAP Analytics Cloud**, decreased data availability time lag by 50%
- Utilized **pytest** to write unit tests for data validation with technical & non-technical documentation

### UBC Institute for Resources, Environment and Sustainability

Communications and Administrative Assistant

Vancouver, BC

January 2022 – September 2022

- Removed outage by creating transitional webpage with **HTML** & **CSS** replacing deprecated software

## PROJECTS

### Netflix Wrapped – Personal

Sep 2024 – Present | [Repository](#)

- Building a full-stack web app with **React**, **Django/Python**, and **PostgreSQL** to visualize Netflix viewing data with **D3.js**
- Used **Python threading** to process large CSV uploads in the background while prioritizing user responsiveness
- Using **scikit-learn** to build **recommender systems** with **content-based filtering** for personalized playlist generation
- Created a **pandas/NumPy** data pipeline to clean, normalize, and aggregate Netflix activity for metrics and trends
- Implemented **JWT authentication** with **HttpOnly cookies** in **Django** with custom middleware for token validation
- Configured **Axios interceptors** to handle authentication errors, refresh tokens, and streamline API calls

### Trailmate – Academic

Jun 2025 – Aug 2025 | [Repository](#)

- Built a hiking planning app to help users prepare for trails using integrated **Google Maps**, and weather APIs
- Developed **React** frontend with dynamic routing, search filters and global state management with **Redux**
- Implemented **JWT authentication** with **HTTP cookies** and created **RESTful APIs** in **Express.js** for **MongoDB** models
- Performed **XSS security testing** and improved input validation to prevent data leakage

### Game Party Finder – Academic

Feb 2023 – Mar 2023 | [Repository](#)

- Used **Java** with **OOP** to create a party finder and statistics tracker for video games with a **Swing GUI**
- Conducted **unit testing** with **JUnit** in non-UI packages with **TDD** (Test Driven Development) principles