

Aaron Ma

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EDUCATION

University of British Columbia

Bachelor of Computer Science (BCS) – Ongoing

BA in Psychology, Minor in Commerce with Distinction – Completed

Vancouver, BC

Sep 2023 – May 2027

May 2022

TECHNICAL SKILLS

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

Frameworks: React, Next.js, Express, Flask, SAP Analytics Cloud, pytest, JUnit, mocha, chai

Tools/Platforms: Node.js, Oracle, MongoDB (NoSQL), Django, Docker, Postman, MySQL, Tableau

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

WORK EXPERIENCE

SAP

Vancouver, BC

Customer Success Marketing & Communications Specialist Intern

Dec 2022 – Aug 2023

- Used **Python** libraries **pandas** & **numPy** to automate customer success (CS) events' data cleansing & manipulation workflows, increasing efficiencies by on average 98%
- Spearheaded a CS data dashboard for 6 products for 50+ internal pre/post sales teams with **SAP Analytics Cloud**
- Decreased time lag of CS event data availability to internal teams by 50% through **workflow automation**
- Utilized **Python** library **pytest** to write unit tests for data validation with technical & non-technical documentation

UBC Institute for Resources, Environment and Sustainability

Vancouver, BC

Communications and Administrative Assistant

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** and **Django/Python** to visualize Netflix viewing history with **D3.js**
- Currently integrating **scikit-learn** to create personalized content playlists based on viewing times and user preferences
- Designed and implemented **PostgreSQL** schemas for storing user accounts and visualization data
- 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
- Used **Python threading** to process large CSV uploads in the background while prioritizing user responsiveness
- **Dockerized** app to streamline development and deployment across frontend and backend services

Trailmate – Academic

Jun 2025 – Aug 2025 | [Repository](#)

- Built a hiking planning app to help users discover trails, and prepare for trips based on weather, difficulty, and gear
- 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
- Integrated **Google Maps**, **Weather**, **Geolocation API** to fetch travel routes, trail conditions & location for hazard reports
- Wrote comprehensive **API tests** using **Mocha**, **Chai**, and **Mochawesome** for automated backend validation
- **Dockerized** app to streamline development and deployment across frontend and backend services

Game Party Finder – Academic

Feb 2023 – Mar 2023 | [Repository](#)

- Used **Java** with **OOP** to create a party finder for video games with **Swing GUI** and exception handling
- Conducted **unit testing** with **JUnit** in non-UI packages with **TDD** (Test Driven Development) principles
- Applied **MVC** (Model-View-Controller) architectural pattern to separate concerns and improve maintainability

