Andrew Ahn

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EDUCATION

The University of British Columbia   **GPA: 4.10/4.33**
Bachelor of Science, Combined Major in Computer Science and Mathematics   *Expected Graduation: May 2026*

- Courses: Intermediate Data Structures & Algorithms (95%), Logic & Circuits (93%), OOP (90%).

SKILLS

Languages: JavaScript, TypeScript, Java, C, C++, Python, HTML & CSS, Bash, PowerShell
Frameworks & Tools: React (+ Native), Node, Express, MongoDB, OAuth, JUnit, Git, Postman, Valgrind, Docker

EXPERIENCE

Full Stack Developer | *UBC Launch Pad*   Sep 2023 – Present

- Implemented OAuth 2.0 authorization flow in a client application, enabling Google Sign-In for user authentication and identity verification using JWT tokens.
- Leveraged collaborative filtering to implement a hybrid content-based and user-based recommendation system in Python to produce personalized recommendations.
- Designed and implemented Firebase-based user authentication and profile management system, secure password hashing with bcrypt, and real-time Firestore database integration for storing user data.
- Built responsive UI using React Native, incorporating secure token-based API calls, dynamic rendering of restaurant data, and Google Maps integration.

IT Technician Intern | *College of Physicians and Surgeons in British Columbia*   Sep 2024 – Present

- Configured and deployed network devices and workstations for new employees.
- Troubleshooted help desk tickets, communicating technical jargon to non-technical users.

Discrete Math Teaching Assistant | *The University of British Columbia*   Sep 2023 – Sep 2024

- Led 200+ students through interactive labs, receiving a 94% favourable rating through student surveys.
- Taught concepts such as low-level programming, big-O time complexity, sequential circuits, and finite state machines.

PROJECTS

AR Bulletin Board - Honourable Mention & Best Beginner Project @ nwHacks | Project   Jan 2024

- Won **2 titles** at nwHacks, Western Canada's largest hackathon with **176 teams and 700+ hackers**.
- Developed a web app that allows users to post images onto an AR bulletin board for others to view in real-time.
- Rendered custom images in AR by meshing them with geometric planes within **6 hours** of learning Three.js.
- Built a mobile-responsive UI that was fully responsive to **40+ users** using HTML and CSS.

Study Sessions Wrapped | GitHub   Sep 2023

- Programmed a full-stack web app that tracks a user's study sessions and provides rich study statistics.
- Constructed a REST API with Express & Node to manage CRUD operations, using MongoDB for data storage.
- Identified pre-production bugs (unresponsive endpoints, invalid data transfer, etc.) by testing the API with Bash scripts and Postman.

Food Expiration Date Manager | GitHub   Apr 2023

- Created a Java fridge-item tracker by implementing **8 different user stories**, resulting in an **80%** decrease in the time taken to check food expiration dates.
- Employed black box and white box testing to achieve **100%** unit test coverage across all objects.
- Ensured data persistence by saving and loading data onto a mock JSON database.