Andrew Ahn

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EDUCATION

The University of British Columbia   **GPA: 4.10/4.33**
Bachelor of Science in Computer Science   *Expected Graduation: May 2026*

- Courses: Data Structures and Algorithms (93%), Models of Computation (93%), Software Construction (90%).

SKILLS

Languages: JavaScript, Java, C/C++, HTML & CSS, Python
Frameworks & Tools: React, Node, Express, MongoDB, Three.js, AR.js, JUnit, Git, Postman, Heroku,

EXPERIENCE

Software Developer | *UBC Launch Pad*   Sep 2023 – Present
- Building a mobile app that provides restaurant recommendations based user preferences.
- Leveraging collaborative filtering with matrix factorisation to develop an ML restaurant recommender system.
- Implementing an Express API in a team of 4, featuring a Firebase authentication system.

Discrete Math Teaching Assistant | *The University of British Columbia*   Sep 2023 – Present
- Led over 170 students through interactive labs, receiving a 94% favourable rating through student surveys.
- Coached students through challenging concepts such as low-level-programming and big-O time-complexity.

Air Cadet | *Royal Canadian Air Cadets*   Sep 2016 – May 2022
- Earned the 2nd-highest rank in a unit of 180+ cadets, directly in leadership of the entire unit.
- Closely mentored ∼30 cadet instructors, receiving the "Heart of The Squadron" award for high impact on unit.
- Attained a Private Pilot License (∼150 hrs of training) in 6 weeks.

PROJECTS

AR Bulletin Board - 2nd Place & Best Beginner Project at nwHacks   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 **12 hours** of learning Three.js.
- Built a front-end that was fully responsive to **40+ users** during the hackathon, using HTML and CSS.

Study Sessions Wrapped   Sep 2024 – Present
- Programmed a full-stack web app that tracks a user's study sessions and periodically provides study statistics.
- Constructed a RESTful API with MongoDB, Express & Node to handle various HTTP requests.
- Built a React front-end, utilizing Context API to enable cross-component data-persistence for course data.

NYT Connections Clone   Dec 2023
- Built a fully-functioning clone of NYT's daily "Connections" puzzle in under **4 hours**.
- Leveraged JavaScript best practices to seamlessly enable feature modifications (ie. board dimensions, tile count).

Food Expiration Date Manager   Jan 2023 – 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.