

# ADA HUANG

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A passionate, fast-learning student leader and developer with interests in full-stack development, UI design, games, and AI-driven tech. Known for my curiosity and niche interests, I wear my passion on my sleeve and bring unwavering commitment to every project I take on.

## EXPERIENCE

### Lead Web Developer, Senior Executive Future Lawyers

📅 August 2021 – Present

- Led web development team of 5+ students building and maintaining national non-profit platform serving 1000+ users across Canada, evolving from informational website to comprehensive networking platform over 4 years
- Spearheading complete platform overhaul to full-stack social networking application for law students and professionals, architecting LinkedIn-style features including user profiles, connections system, messaging, and career matching
- Implemented interactive features using Wix, Velo, and JavaScript including dynamic content management, custom forms with backend integration, user authentication, and real-time event registration system
- Mentored junior developers on web technologies and agile workflows while collaborating cross-functionally with marketing and operations teams, delivering solutions that increased user engagement by 40%

### UBC Thunderbird Sport Clubs Tennis Athlete UBC Women's Tennis Team

📅 September 2025 – Present

- Compete at USports highest competitive level representing University of British Columbia in national tournaments
- Coordinate fundraising initiatives and team operations for self-funded tennis program, including sponsorship outreach and budget management
- Balance 10+ hours weekly of training and competition with full-time academic courseload

### Executive Photographer UBC KWave (UBC Korean Entertainment and Culture Club)

📅 September 2025 – Present

- Capture and edit professional event photography using Lightroom for weekly events and large-scale cultural showcases
- Provide media coverage for competitive dance team performances, managing visual content strategy to increase club visibility and audience engagement on social media

### Senior Executive, Curriculum Coordinator St Robert Coding Club

📅 May 2023 – June 2025

- Designed and delivered weekly curriculum for 30+ students covering programming fundamentals, web development, game development, and software engineering
- Created hands-on projects including 2D platformer game using Godot Engine and GDScript, teaching object-oriented programming, game physics, and collision detection
- Developed problem sets and solutions for school's annual coding competition

## EDUCATION

### Bachelor of Science University Of British Columbia

📅 Expected April 2029

- Pursuing Computer Science Major

### Ontario Secondary School Diploma + IB Diploma St Robert Catholic High School

📅 June 2025

## LANGUAGES

- English (Native)
- French (Fluent)
- Cantonese (Native)
- Mandarin (Native)

## TECHNICAL SKILLS

Python Java JavaScript  
TypeScript Racket R  
HTML & CSS SQL

### Tools & Frameworks

- **Web:** Next.js, Node.js, Express.js, React, Wix
- **APIs:** REST APIs, API Integration
- **Database:** PostgreSQL, SQLite, Firebase
- **Design & Creative:** Figma, Canva, Lightroom, DaVinci Resolve, CapCut, GarageBand, BandLab
- **Version Control:** Git, GitHub
- **Game Dev:** Godot, Pygame
- **Other:** VPS Deployment, Docker, Heroku, Arduino

## SOFT SKILLS

Leadership Mentorship  
Communication  
Cross-functional Collaboration  
Problem Solving Adaptability  
Project Management  
Self-Directed Learning

## PROJECTS

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### Vitreous - Cybersecurity Transparency Tool

React, TypeScript, Python, FastAPI, Gemini AI | [devpost.com/vitreous](https://devpost.com/vitreous)

📅 January 2025

- Won UBC CS Project Hub Incubation Program; independently built complete full-stack cybersecurity audit application with AI integration and risk-scoring algorithm
- Engineered system scanning Gmail metadata to map digital footprint, identify breaches via HavelBeenPwned API, and flag dormant accounts with exposed credentials
- Built parallel query system with Gemini AI extracting structured data; optimized scan time from 60+ seconds to under 30 seconds

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### Rasterye - Garden Planning & Smart Crop Rotation Tool

Python, Figma | [rasterye.ca](https://rasterye.ca) | [devpost](https://devpost.com)

📅 February 2026

- Won Sustainability & Environment Prize at Hack the Coast 2026; built spatio-temporal matching algorithm integrating crop compatibility and historical data
- Deployed by UBC Roots on the Roof with data visualization and crop rotation recommendations

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### Spotify Lyric Romanizer

Node.js, Express.js, Spotify API | [adahuang.com/spotify](https://adahuang.com/spotify)

📅 December 2024

- Built full-stack application romanizing Korean, Japanese, and Chinese lyrics with custom language detection for overlapping character sets and real-time Spotify synchronization
- Integrated Spotify API with multiple lyrics databases (LRCLib, NetEase) using intelligent matching and fallback logic; deployed live with ongoing optimization

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### BeWeird App

Next.js, TypeScript, Firebase | [github.com/ada1027/be-weird-app](https://github.com/ada1027/be-weird-app)

📅 October 2024 – Present

- Led technical development of mobile-first wellness gamification app at hackathon; independently built full application using Next.js, TypeScript, and Firebase
- Implemented Firestore for authentication, cloud storage, quest tracking with difficulty tiers, and BeReal-inspired social feed; planning Forest-style character growth system

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### Future Lawyers Networking Platform

Wix, JavaScript, TypeScript, Express.js, PostgreSQL | [futurelawyers.com](https://futurelawyers.com)

📅 August 2021 – Present

- Built and maintained national non-profit platform for 4+ years serving 1000+ users; currently overhauling to full-stack social networking application
- Architecting LinkedIn-style features including user profiles, connections system, messaging, and career matching for law students

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### Air Pollutant Forecaster (APF)

Python, ML, AR | Youth Impact Challenge

📅 June 2023 – June 2024

- Co-developed air quality prediction tool with machine learning and AR interface; won 4th place nationally with \$3000+ funding
- Built AR visualization overlaying real-time air quality data onto real-world environments

## ACHIEVEMENTS

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- **Cmd-F 2026 Winner** – Winner of UBC CS Project Hub summer incubation program selection (March 2026)
- **Hack the Coast 2026 Winner** – Sustainability & Environment Stream Prize winner (Feb 2026)
- **Competitively Selected for Shopify Dev Degree Program** (May 2025)
- **OFSAA Tennis Champion** – Singles gold medal; 4x provincial medalist (2022-2025)
- **Youth Impact Challenge** – 4th place nationally, \$3000+ funding (Sept 2023)
- **FBLA Coding Competition** – Advanced to national finals (March 2023)
- **International Climate Science Olympiad** – Top 14%, Outstanding Participant (June 2021)
- **St. Robert Hackathon** – First Place (Nov 2021)
- **Royal Conservatory of Music** – First Class Honors, Level 8 Piano (Dec 2019)

## PERSONAL INTERESTS

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- **Guitar** – Self-taught, currently mastering November Rain solo
- **Esports** – Avid women's esports fan, a dedicated fan of Shopify Rebellion GC (day 1 fan of SR meLanji)
- **Competitive Tetris** – Peaked top 11% in Tetr.io Season 1 Tetra League (SS Rank)
- **Women's Basketball** – Seattle Storm and WNBA enthusiast
- **Cardistry & Magic** – wish I could rewatch the Now You See Me series for the first time
- **Korean Cuisine** – Passionate about cooking and especially eating Korean food