

# Angela Dakay

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## EDUCATION

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### University of Alberta

*B.Sc. Computing Science with Specialization, GPA: 3.8*

Edmonton, AB

*June 2027 [Expected]*

## EXPERIENCE

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### Web Developer Co-Lead

*Mission Spacewalker (Ualberta Student Club)*

- Led a 4-person web team: defined the design vision, set timelines, scoped work, and ran check-ins; **primary contributor** to code and UI.
- Showcased the site at campus events and attracted **100+ unique visits** post-launch; increased club visibility and engagement.

July – Dec. 2025

*Edmonton, AB*

### Undergraduate Teaching Assistant

*University of Alberta*

- TA for **CMPUT 204: Algorithms I**; held weekly office hours to clarify concepts in data structures, time complexity, dynamic programming, and recurrence relations.
- Graded quizzes, midterms, and finals for **250+ students**, provided constructive feedback to enhance students' understanding of algorithm design and analysis.

Jan. – April 2025

*Edmonton, AB*

## PROJECTS

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### Social Media Platform | *HTML, CSS, JavaScript, Django, PostgreSQL, Heroku*

Sept. – Dec. 2025

- Led frontend development; designed and built UI for login, profile, post creation, and feed display.
- Designed Django models and linked them to a PostgreSQL database to persist posts and user interactions.
- Developed and integrated **RESTful API endpoints** in Django for comments, likes, and post stream features.
- Implemented unit and integration tests using Django's testing framework to ensure robust API behavior.

### Event Lottery App | *Java, Android Studio, Firebase, Figma*

Sept. – Dec. 2024

- Collaborated in a **6-person team** to deliver a full-stack Android app with multi-role support (user, organizer, admin); built lottery, map-based tracking, and event management features.
- Integrated Firebase **backend services** with the Android frontend using **object-oriented programming** (OOP)
- Led **UI design**, creating Figma wireframes and building all XML screens for a consistent user experience.
- Implemented core features including **JUnit tests**, admin tools (user removal, QR code invalidation, event deletion) and several entrant functionalities (QR scanner, event management) that streamlined usability across roles.

### Mission Spacewalker Website | *React, TypeScript, HTML5, CSS3, Figma, Git*

July – Oct. 2025

- Built a responsive React and TypeScript website for a student-led aerospace design team with **reusable components** and **semantic HTML** to improve maintainability and accessibility.
- Managed the full lifecycle: created mockups in Figma, versioned code with Git, and deployed on Vercel.

### Cordsa Website | *React, TypeScript, HTML5, CSS3, Figma, Git, Vercel*

Aug. – Present

- Sole developer** for a nonprofit club; built a branded, production-ready website with interactive forms.
- Implemented a clean component-based architecture in React with accessible, **semantic markup**, and responsive layouts using **CSS Grid** and **Flexbox**.

### Cyanobacteria Bioreactor | *Raspberry Pi 4, Sensors, Python*

Sept. 2024 - Nov. 2025

- As part of Mission Spacewalker, selected as 1 of only 4 teams nationwide in the **SEDS Canada CAN-RGX competition** to design a bioreactor for cyanobacteria-based life-support research.
- Contributed as a software team member, integrating **hardware components** (flow sensor, solenoid valve, and motor) with control software to automate CO<sub>2</sub> injection and nutrient delivery cycles.
- Built features for a real-time Python (Tkinter) dashboard for monitoring gas flow, timing, and system status.

## TECHNICAL SKILLS

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

**Frameworks:** React, Next.js, Django, Android SDK, Java Swing, Tkinter, JUnit

**Developer Tools:** Git, GitHub, VS Code, NetBeans, Figma, Firebase, MongoDB, Vercel, Heroku

**Libraries:** Axios, React Router, Framer Motion, Pandas, NumPy