Daniel Cui

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EDUCATION

University of Alberta   Edmonton, AB
B.S.c Computing Science with Specialization   *Sept 2022 – May 2026 (Expected)*

PROJECTS

PillPal | *Next.js, Django, SQLite, OpenAI API, Tesseract.js, Google Maps API* | Devpost   Feb 2025
- Developed a medication managment app that simplifies prescription tracking and connects users to healthcare communities at **HackED 2025**.
- Implemented prescription scanning with **Tesseract.js for OCR** and utilized the **OpenAI API** for text detection and information look up.
- Leveraged the **Google Maps API** to deliver location-based services that help users connect with local pharmacies for medication refills.
- Integrated **Tidio chatbot** to provide users with real-time support and **Flarum** for community building through an interactive forum.

UEDBot | *C++, Git, SC2API* | GitHub Repository   Sept 2024 – Dec 2024
- Developed an open-source bot for StarCraft II using the SC2API to autonomously manage build orders, resource allocation, and unit control.
- Achieved a record of **57 wins, 3 draws, and 0 losses** against **11 other StarCraft II bots**.
- Engineered a threat evaluation system that automatically detects enemy threats and adjusts tactics in real time.
- Integrated debugging and visualization tools to monitor key game state metrics.
- Implemented micromanagement controls for each unit type that **improved survivability by 32%**.

Event Hub | *Java, XML, Firebase, Google Maps API* | GitHub Repository   Sept 2024 – Dec 2024
- Created a full-stack Android app for hosting and joining events with a entry lottery system to promote equality.
- Led daily scrum meetings with a **5-member team**, leveraging **agile methodologies** and the **MVC design pattern** to streamline development.
- Designed **UML diagrams, CRC cards, and UI mockups** in Figma with a focus on user-friendly design.
- Leveraged the **Google Maps API** to display entrant locations and perform proximity verification.
- Implemented **CI/CD practices** with **GitHub Workflows**, automating **JUnit** and **Android Espresso** testing for **98% build uptime**.
- Maintained **100%** documentation uptime by automating **Javadoc** generation and **GitHub Pages** deployment.

EXPERIENCE

Resident Assistant   Nov 2022 – May 2023
University of Alberta   *Edmonton, AB*
- Supervised a residential community of **50+ students**, fostering an inclusive and supportive living environment.
- Organized **10+ events** over six months, with **85%** resident participation and **95%** positive feedback.
- Resolved **92% of resident concerns within 24 hours** by coordinating with maintenance teams and emergency response personnel.
- Performed **20+ health and safety inspections monthly**, ensuring **100%** compliance with university policies among residents.
- Collaborated with a team of **20 Resident Assistants**, leading initiatives that promoted community awareness and respectful living.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, PostgresQL, SQLite, JavaScript, HTML, CSS
Frameworks/Libraries: Django, JUnit, Material-UI, BootStrap, MongoDB, Nix
Technologies/Tools: Git, GitHub, Firebase, Linux (NixOS & Ubuntu), Home Manager, Postman