

Harry Chen

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Education

University of Calgary - *Calgary, Alberta*

2018 – 2022 (Expected)

- Combined B.Sc. in Computer Science and B.A. in Economics GPA: 4.0 / 4.0
- Courses: Algorithms, Relational Databases, Computer Networks, Object-Oriented Design
- Activities: Competitive Programming Club, Sophomore Leadership Program

Employment

Mikata Health - *Remote*

Software Developer Intern - *(Part-Time)*

Sept 2020 – Apr 2021

- Implementing a revamped design for the clinic-facing user interface in React and Redux.
- Refactoring the JavaScript frontend codebase to TypeScript to improve maintainability.

Software Developer Intern - *(Full-Time)*

May 2020 – Aug 2020

- Reduced developer time spent on customizing patient messages for clinics by developing a customization dashboard and API endpoints using AWS Lambda with NodeJS.
- Created robust UI components for the patient web chat app using React and TypeScript.
- Improved clinic dashboard usability through building highly requested user features.
- Developed code compliant with healthcare privacy and security requirements.
- Used Scrum agile development for productivity through code reviews, sprints, and stand-ups.

Projects

UCollab - *Python, Flask, SQL Alchemy, HTML, CSS, Bootstrap*

- Built a full stack web application that provides a platform for interdisciplinary collaboration between students and faculty under a 24-hour time-constraint for Calgary Hacks 2020.
- Created a beautiful frontend with a message board, user authentication, and user profiles.

Tank Royale - *Java, JavaFX*

- Programmed a top-down tank battle multiplayer game using object-oriented design principles.
- Implemented animation, collision detection, bullet ricochet, and game physics.

Element Crush - *Python, Pygame*

- Coded an engaging match three or more tiles desktop puzzle game with sound effects.

Sudoku Solver - *Java*

- Developed a program that solves any sudoku puzzle taken in as a text file.
- Implemented elimination techniques and a backtracking sudoku solving algorithm.

Skills

Languages: (*proficient*): Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, (*familiar*): C++, Haskell, ARM Assembly

Tools & Frameworks: React, Express, PostgreSQL, MongoDB, Git, Bash, Redux, Bootstrap

Awards

- Frank Mink Undergraduate Economics Scholarship 2020
- Louise McKinney Post-Secondary Scholarship 2019, 2020
- Dean's List for the Faculty of Science and Faculty of Arts 2019, 2020
- President's Admission Scholarship – Entrance average 95%+ 2018