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Aiden Kerr
Third Year, Computer Science

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EDUCATION

B.Sc. Computer Science, The University of British Columbia

Sep 2019 - May 2024

Overall GPA: 87.2

CS GPA: 91.6

SKILLS

Languages	JavaScript, Java, Typescript, C++, C
Libraries/Frameworks	React, Next.js, Express.js
Tools/Technologies	Node.js, REST, MySQL, Git, Unix/Linux, GraphQL, Firebase, Firestore (NoSQL)
Testing/Debugging	Jest, React Testing Library, JUnit, GDB, Valgrind

EXPERIENCE

Software Engineer, Realtor.com, *Remote*

Sep 2021 - Apr 2022

- Worked on multiple **React/Next.js shareable components** and pages written in both **JavaScript** and **TypeScript**, including a custom Google Maps wrapper.
- Reduced page load times by reworking API calls with GraphQL to **cut number of calls by 50%**.
- Initiated cross-team interest in WebAssembly via informational slideshow, **leading to new prototype project**.
- Maintained **over 80% test coverage** using **Jest** and **React Testing Library**.
- **Responded quickly** to changing priorities, allowing quick change that received **CEO appreciation**.
- Contributed and asked relevant questions in all **Scrum** events, and participated in **code review**.
- **Collaborated across multiple teams** to ensure product quality and consistency.

TECHNICAL PROJECTS

Kerrdit - Javascript, React, Node.js, Express, MySQL

Jul 2020 - Present

Full-Stack clone of Reddit

- Used React with Material-UI to build responsive website similar to Reddit's layout.
- Built a **REST API** with Express to read/write from a **MySQL database** to allow posting, voting, and more.

20Q Designer - Java, Swing, JSON persistence.

Oct - Dec 2020

Users can build and play 20Q-style games with custom items and questions.

- Developed using a binary tree structure that backtracks when all questions in a branch have been asked.
- Implemented persistence by reading and writing to JSON files.
- Achieved **100% test coverage with JUnit** to ensure program quality.

HACKATHONS

GeoTrace (Hack The North) - React, Firebase, Google Maps API.

Jan 2021

Privacy-focused contact tracing for old devices and areas without the needed infrastructure.

- Fetched and parsed exposure information from Firestore (NoSQL) using **Javascript**.
- Created a dashboard with the Google Maps API and React to display location data as a heatmap.

GitLOVE (MLH Hackathon) - React, Ionic, Firebase, BiwaScheme.

Jul 2020

Second-place out of over 200 participants - Dating app for programmers to share and run code art.

- Built pages using Ionic Components and **Javascript** to read and write data to Firestore (NoSQL).
- Used BiwaScheme interpreter to build custom Scheme functions that draw on the HTML canvas.

Quaddoodle (MLH Hackathon) - React, Firebase, HTML Canvas.

Jun 2020

Honourable Mention out of over 300 participants - Collaborative drawing game with hilarious results.

- Used Firestore using React and **Javascript** to create game rooms and store data.
- Implemented drawing with HTML Canvas.