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Aiden Kerr
Third Year, Computer Science

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EDUCATION

B.Sc. Computer Science, The University of British Columbia
GPA: 87.2 (Overall), 91.6 (CS)

Sep 2019 - May 2024

SKILLS

Languages	JavaScript, Java, TypeScript, Go
Libraries/Frameworks	React, Next.js, Express.js
Tools/Technologies	AWS, Kubernetes, Node.js, GraphQL, REST, MySQL, Firebase, Firestore (NoSQL)
Testing/Debugging	Jest, React Testing Library, JUnit, GDB, Valgrind

EXPERIENCE

Software Engineer Intern, SAP, *Vancouver, British Columbia*

May - Aug 2022

- Used shell script, Kubernetes, Helm, Docker, and Cloudformation to configure deployment/networking settings.
- Improved security by leveraging Cloudwatch, Kibana, and MySQL to investigate database connection details.
- Discovered redundant AWS instance while aligning development and production environments, saving \$500/year.
- Weighed pros/cons of running script at runtime vs buildtime to increase service stability and reduce maintenance.

Software Engineer Intern, 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.
- Collaborated across multiple teams to ensure product quality and consistency.

TECHNICAL PROJECTS

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

Jul - Aug 2021

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, JUnit.

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 progressive web app 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.

Quadoodle (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.