

Kent Richards

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Education

Bachelor of Computer Science, Co-op Designation
Dalhousie University, Halifax, Nova Scotia
Sexton Scholar (Fall 2018, Winter 2019)

2018 — 2023

Work Experience

Engineering Student, MDA Systems Ltd.

Apr — Aug 2021

- Optimized the search functionality of a Spring Boot application, improving performance by 900% under typical conditions.
- Improved UI consistency through the refactoring of dozens of front-end windows and components.

Junior Programmer, Public Service Commission of Canada

Jan — Aug 2020

- Implemented core interface components in the government's next generation candidate assessment platform using React, Redux, Python, and Django.
- Created a comprehensive suite of automated integration tests using Python and Selenium WebDriver.

Personal Projects

Codenames

Ongoing

- Developed an online multiplayer version of the popular board game Codenames, using JavaScript, Node.js, and Express.
- Leveraged web sockets to enable real time communication between clients, also features room and player management, support for an arbitrary number of games and players, connection timeouts, roles, and more.

weather-app

2020

- Developed a single-page application in React to display weather information anywhere in the world.
- Utilized OpenWeather's autocomplete geocoding API to allow users to search for points of interest around the world, then used the corresponding latitude and longitude values to fetch and display current weather statistics for that area.

Technical Skills

- Experience using **git**, **GitHub**, **GitLab**, **Visual Studio Code**, **IntelliJ**, and **Linux**.
- Strong knowledge of **JavaScript**, **TypeScript**, **HTML**, **CSS**, **Java**, and **Node.js**.
- Additional experience with **C**, **Python**, **PHP**, **React**, **Next.js**, **TailwindCSS**, **Docker**, **PostgreSQL**, and **MongoDB**.

Extracurricular Activities & Volunteer Experience

Warehouse Volunteer, Feed Nova Scotia Ongoing

- Building pallets of frozen food to be sent to food banks throughout the province.
- Diligently inspecting, sorting, and labelling donated food items.

BattleSnake Tournament, ShiftKey Labs/BattleSnake Campus Tours Jan 2023

- Alongside two friends, created an automated web server in Python to play competitive BattleSnake.
- Placed second out of fourteen teams in the BattleSnake tournament at Dalhousie University by utilizing Dijkstra's algorithm, state prediction, and points based board evaluation.

Writer, The Dalhousie Mackerel Jan — Apr 2023

- Wrote and brainstormed numerous headlines and articles for *The Mackerel*, a student-run satirical newspaper at Dalhousie University.

References available upon request.