

Kevin Pierce

✉ k3pierce@uwaterloo.ca

🌐 kevin-pierce

📺 kwpciere

🌐 kevinpierce.dev

SKILLS

| | |
|------------------|--|
| Languages | JavaScript, TypeScript, Python, C/C++, Golang, Java, SQL, Bash, Git |
| Frontend | React, Redux, HTML/CSS, Gatsby, Bootstrap, Figma |
| Backend | Node.js, Express, Flask, GraphQL, MySQL, MongoDB, Heroku, AWS, GCP, Firebase |

EXPERIENCE

Wish – Software Engineer Intern

Toronto, ON / Jan 2022 – Apr 2022

- Developed **cron** scripts to audit and flag **600,000+** orders in **Presto**, improving runtime performance of payments-related **Mongo** queries from **linear** to **constant** time, reducing lookup times by **60%** on average
- Implemented country verification and automated email generation functionality with **GraphQL** and **Python** to facilitate new merchant reporting feature for Europe-bound orders
- Led code refactoring initiative for order fulfillment flow, increasing code efficiency and test coverage by **25%**
- Integrated new logging table using **SQL** for tracking number sanitation service to improve infraction resolution

TRIYO – Software Engineer Intern

Toronto, ON / May 2021 – Aug 2021

- Architected and released Task Activity Visualizer for the TRIYO Insights Dashboard, PDF download functionality, and integrated Smart Filter **React** components with the TRIYO Tasks module
- Spearheaded functional and UI refactoring initiative for TRIYO Smart Filters module by refactoring **15+ React** components, improving code efficiency and application render speed by **35%**
- Resolved **40+** functional and styling bugs and streamlined styling issue resolution process, enhancing visual bug resolution efficiency by **80%** across entire application
- Implemented unit tests using **Jest** to increase code coverage for **Redux** functionality by **30%**

Cecchini Lab – Full Stack Developer

London, ON / Mar 2021 – Present

- Authored and presented abstract and poster at 2022 Schulich Pathology Research Day Conference ([link](#))
- Engineered full stack **React** application to facilitate pathology education to **50** undergraduate students
- Implemented REST API with **Express** to handle login, track student performance, and fetch cancer tiles
- Streamlined cancer image storage using **AWS S3** and **RDS MySQL** instances to improve load speed by **20%**

PROJECTS

Hype4Less

🌐 Source

Python, Selenium, JavaScript, HTML/CSS, React, Flask, Heroku, MongoDB

- Built a web scraper using **Selenium** capable of gathering **1200** on-sale products within **15 minutes**
- Designed and implemented the front-end using **Figma** and **React** to showcase sales by brand and product
- Developed a REST API with **Flask** to return document-based sale data stored in **MongoDB Atlas**

myBoard.space

🌐 Source

React, JavaScript, HTML/CSS, Bootstrap, Firebase

- Built an interactive canvas with **React** to establish the whiteboard instance between teachers and students
- Employed real-time whiteboard interaction with **Firebase's Realtime Database** to reduce latency to **<500ms**
- Composed the paint tool UI with **Bootstrap** to create a responsive design supported on mobile devices

EDUCATION

University of Waterloo

Sep 2019 – Apr 2025

Bachelor of Software Engineering (BSE) - 2B Term

- CGPA: 4.0 - Term Dean's Honour List for 1A