# Kevin Pierce

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## Skills

**LANGUAGES** JavaScript, TypeScript, Python, Java, C/C++, SQL, Golang, HTML/CSS, Bash, Git
**TECHNOLOGIES** React, Node.js, Express, Flask, Selenium, Heroku, MongoDB, AWS, Firebase, Jest

## Experience

**Software Engineering Intern** – TRIYO, *Toronto, ON* **May 2021 – Aug 2021**

- Developed 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, improving visual bug resolution efficiency by **80%** across entire application
- Implemented unit tests using **Jest** to increase code coverage for **Redux** functionality by **30%**

**Full Stack Developer** – Cecchini Lab, *London, ON* **May 2021 – Aug 2021**

- Developed full stack **React** application to facilitate pathology education to **~50** undergraduate students
- Implemented RESTful 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**

- Full stack web app that connects consumers to shoe and clothing sales at various retailers
- Designed and implemented the front-end using **Figma** and **React** to showcase sales by brand and product
- Built a web scraper using **Selenium** capable of gathering ~1200 on-sale products within 15 minutes from multiple large Canadian clothing retailers, including Adidas, Nike, and Footlocker
- Developed a RESTful API with **Flask** to return document-based sale data stored in **MongoDB** Atlas

**Tools Used: Python, Selenium, JavaScript, HTML/CSS, React, Flask, Heroku, MongoDB**

**myBoard.space** **Source**

- Serverless web app that provides a low-bandwidth solution to hosting lectures on an online whiteboard
- 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

**Tools Used: React, JavaScript, HTML/CSS, Bootstrap, Firebase**

## Education

**University of Waterloo** **2019 - 2025**
Candidate for Bachelor of Software Engineering (BSE)
*Term Dean's Honour List for 1A 2020*