

Richard Mills

Software Developer

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Work Experience

Software Developer

QuoteToMe

01/2020 - Present

Remote

Achievements/Tasks:

- Joined QuoteToMe early in the development of their product and played an instrumental role in building the app from the ground up.
- Worked with a small team to develop a scalable, reliable, and easy-to-maintain app. Successfully grew the user base from a handful of daily active users to over 100. Managed hundreds of daily emails and thousands of third-party requests.
- Implemented a Redis-based worker queue system to handle long-running tasks and third-party requests. This led to a significant reduction in the longest running endpoints and improved robustness by moving potential failures out of the users' path and into a place where they can be captured and retried.
- Developed and integrated Elasticsearch to provide fast and accurate search results to users.
- Added and improved various features, including accounting integrations with Procore and Ryvit, messaging via SendGrid, Twilio, and OneSignal, and internal logic to support the purchasing process.
- Worked using agile methodologies with daily standups, bi-weekly sprints, and a kanban board to track tasks. Participated in running sprint retrospectives and reviews to promote team health and implement process improvements.

Research Assistant

MacEwan University

05/2019 - 12/2019

Edmonton, Alberta

Achievements/Tasks:

- Worked in a software development role during the fall semester, leading a team of students to create a web application that supports student education for the Accounting School.
- Developed the app's front-end using JavaScript React, back-end using Django Python, and used an SQL database to store data.
- Collaborated closely with professors in the Computer Science department over the summer.
- Created lab and course material for introductory computer science and network security courses.
- Laid the groundwork for a machine learning project to solve engineering statics problems by developing and training an object detector.

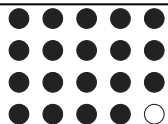
Technical Skills

Python

Git

JavaScript

Rust



Work Experience (continued)

Project Manager / Project Engineer

Synchrude Canada

10/2012 - 04/2016

Fort McMurray, Alberta

Achievements/Tasks:

- Successfully led the development of a portfolio of projects exceeding \$5M, working with a multidisciplinary project development team.
- Acted as either a project lead or team member depending on project and team requirements.
- Developed and managed both technical and financial aspects of projects to ensure on-time and on-budget delivery.
- Delivered projects ready for execution and managed execution of field support facilities for major projects.
- Demonstrated exceptional problem-solving skills by taking on and completing a difficult project.
- Developed compelling financial proposals for new projects to secure funding.
- Conducted a comprehensive investigation of a safety incident, including drafting and submitting a report for the provincial government.

Personal Projects

Anatomy Visualizer and Explorer

- Working on a web application that allows for the visualization and exploration of a 3D anatomical model of the human body.
- Developing a proof-of-concept app aimed at supporting physiotherapists and their clients.
- Building the app using ThreeJS, Svelte, and SvelteKit.
- Focused on optimizing performance, minimizing load times, and providing an intuitive user experience.

Reading Time

- Developed a Firefox browser extension using JavaScript, HTML, and CSS.
- The extension counts the number of words on a webpage and provides an estimated reading time for the user.
- The extension has been well-received and currently boasts over 80 active weekly users.

Education

Bachelor of Computer Science

MacEwan University

2016 - 2019

Edmonton, Alberta

Highlights:

- Minor in Business Studies
- 3.9 GPA

Bachelor of Mechanical Engineering

Dalhousie University

2006 - 2011

Halifax, Nova Scotia