

Joel Harder

📍 Guelph, ON ✉ joelharder4@gmail.com ☎ 226-218-9358 🔗 joelharder.ca in joel-harder 🐙 joelharder4

Skills

Languages: JavaScript (and TypeScript), Python, PostgreSQL, Java, C

Technologies: React.js, Next.js, Vite, Spring Boot

Development Tools: Git, Docker, Postman, Jest, Nginx

Experience

Scotiabank, Data/Software Engineer Intern - IB Treasury

Toronto, ON

Jan 2025 – Aug 2025

- Replaced error-prone manual spreadsheet intake with a full-stack web portal (FastAPI and React/Vite), cutting validation time from hours to seconds and standardizing financial reporting across Latin American subsidiaries.
- Automated the reporting pipeline from data cleaning to Power BI dashboards, eliminating manual work and improving reliability.

Tulip Retail, Software Developer Co-op

Kitchener, ON

Sept 2023 – Dec 2023

- Built custom ticketing tools using PHP and the Zendesk API that automatically generated tickets on errors and alerted the team via Mattermost, saving support staff hours of manual reporting each week.
- Improved forms in version 2.0 of the company's web portal (React, TypeScript), simplifying sales and discount creation while providing more options and reducing friction for non-technical users.
- Collaborated closely with designers and QA testers in daily scrums and sprint planning, applying agile practices to deliver new features on a weekly basis.

Projects

Study Buddy

🐙 Github

- Developed an AI-driven web app to instantly turn notes into personalized practice tests, helping users study more efficiently and share tests with others.
- Improved system performance and reliability, reducing load times by ~40% and supporting smooth usage during high-traffic.
- Tools Used: React.js, Python (FastAPI), PostgreSQL

Portfolio Website

🔗 joelharder.ca 🐙 Github

- Built and deployed a personal portfolio website featuring a custom Bash-like terminal emulator with interactive navigation and file viewing, using React and hosted with Firebase.
- Tools Used: React.js, Google Firebase, Tailwind CSS

Tutor Connect (Tucon)

🐙 Github

- Built a web platform to connect university students with tutors using a swipe-based matching system inspired by Tinder.
- Built polished signup pages in one week; taught teammates front-end basics.
- Tools Used: Next.js, Typescript, Python, Google Cloud Platform, Redis

Education

BCSc **University of Guelph**, Computer Science

Sept 2021 – May 2026

- **Coursework:** Databases, Networks & Security, Computational Theory, Data Structures, Algorithms, Operating Systems