

# Joel Harder

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## Skills

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**Languages:** JavaScript & TypeScript, Python, PostgreSQL, Dart, Java, C

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

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

## Experience

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**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.
- Containerized the application with Docker and implemented an Azure DevOps pipeline to publish images to Artifactory and deploy to an IST server, ensuring consistent environments across development and production.
- Automated the reporting process 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.

## Projects

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**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.
- Refactored backend to improve 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.
- Tools Used: Next.js, Typescript, Python, Google Cloud Platform, Redis

## Education

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**BComp University of Guelph**, Computer Science

Sept 2021 – May 2026

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