

# MATTHEW BERGER

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## SKILLS

**Programming:** React, TypeScript, Python, SQL, Bash, Git, HTML, CSS, C++

**Applications:** AWS, Github, Graphite, Linux, VS Code, Vim, Figma, Postman

## EDUCATION

**University of Waterloo**

*Bachelor of Mathematics, Combinatorics and Optimization, Political Science Minor*

Sept 2021 — April 2026

Waterloo, ON

## WORK EXPERIENCE

**Computer Scientist, Industry Canada (AI Accelerator Lab)**

Jan — Aug 2025

- Refactored intranet-facing AI chatbot frontend into a lightweight **React** application, reducing bundle size from **20MB to 500KB** and lines of code by 75%, delivering faster load times and simplifying feature development.
- Developed module for a parliamentary committee summary tool by leveraging **LLMs** to extract MPs' key lines of questioning, reducing hours of weekly overtime costs.
- Optimized WhisperX transcription pipeline by benchmarking libraries and resolving memory bottlenecks, decreasing processing time from 45 to 10 minutes.

**Associate AI Engineer, Spellbook**

May — Aug 2024 (Remote)

- Enhanced contract review efficiency by redesigning LLM-based scoring system; fine-tuned **OpenAI** models and tested classifiers using **scikit-learn**, evaluating multiple ML approaches to improve accuracy and reduce review time.
- Delivered weekly analytics presentations to product, engineering, and leadership teams, translating insights from **1M+ user interactions** into actionable recommendations, driving alignment with business goals.

**Software Developer, Spellbook**

Sept — Dec 2023 (Remote)

- Engineered GPT-4-powered contract review features, using document chunking and prompt engineering to inject relevant contract sections and party-specific metadata into model context.
- Completed an entire UI overhaul within a high-velocity two-month timeframe, translating **Figma** designs into composable React components with corresponding **Storybook** tests.

**Full Stack Developer, Tamvoes Health**

Jan — April 2023

- Re-architected event and contact sharing by designing decoupled, single-purpose backend APIs, improving data-sharing reliability between patients and doctors.
- Refactored legacy code from **jQuery** and **Handlebars** to **React**, reducing client-side complexity and improving page responsiveness.

**Full Stack Web Developer, Tradable Bits Media**

May — Aug 2022

- Deployed a sales funnel builder to track fan engagement flows, simplifying data analysis and driving a 25% increase in conversions among previously untapped audiences using **Flask**, **jQuery**, **Python**, and **PostgreSQL**.
- Leveraged the Facebook Graph API to repurpose ad templates as Facebook posts, reducing manual content creation and streamlining campaign workflows.

## PROJECTS

**Contactly Remix (React Framework), Prisma (ORM), Planetscale, Typescript, Figma, TailwindCSS**

- Built a full-stack contacts application with scheduled reminder emails via **Twilio SendGrid**, profile image storage using **Amazon S3**, and user authentication implemented with **OAuth 2.0**.
- Implemented custom parsing and normalization logic to import contact data from external providers into a unified internal schema.

**Personal Website**  *Astro, React, TailwindCSS, Markdown*

## ABILITIES & INTERESTS

**Languages:** Spanish (Native Fluency) - French (Working Proficiency)

**Typefaces (Fonts):** Slab Serif, script, sans serif - I love them all!