

# Matthew Berger

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## SKILLS

**Languages:** TypeScript, Python, SQL, HTML, CSS, C/C++

**Frameworks:** React (Next.js, Remix), Storybook, Flask, Framer Motion, Svelte, Astro, TailwindCSS, Axios

**Developer Tools:** Git, Linux, Vim, Figma, Postman

## EXPERIENCE

### 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 significantly 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.
- Queried data from **AWS Athena** and visualized trends using **NumPy** and **Matplotlib** to inform product enhancements and improve user engagement.
- Implemented **ONNX**-based Python-to-TypeScript model conversion, enabling **A/B testing of ML models** via feature flags in production

### Software Developer | Spellbook

Sept – Dec 2023 (Remote)

- Significantly contributed to a complete UI overhaul using **React**, **Typescript**, and **TailwindCSS**, navigating numerous design iterations shared via **Figma**. Completed a complete rewrite within an impressive two-month timeframe.
- Proactively introduced **Framer Motion** to streamline the addition of animations and microinteractions. Emerged as the go-to team member for animation expertise, leveraging in-depth knowledge of the library.
- Spearheaded building complex primitives and atomic components used application-wide, along with comprehensive visual and interactive **Storybook** tests for each.

### Full Stack Developer | Tamvoes Health

Jan – April 2023

- Overhauled event and contact sharing platform-wide, using **Pyramid** to build decoupled, single-purpose API endpoints for patients to share data with their doctor. Simplified data sharing for patients and boosting user retention by over 10%.
- Simplified tangled logic and improved code maintainability by refactoring legacy code from **jQuery** and **Handlebars** to **React**.

### Full Stack Web Developer | Tradable Bits Media

May – Aug 2022

- Deployed a sales funnel builder to track fan engagement flows, simplifying data analysis and a 25% increase in conversions from previously untapped audiences using **Flask**, **jQuery**, **Python**, and **PostgreSQL**.
- Optimized user experience by leveraging the Facebook Graph API to repurpose existing ad templates as Facebook posts
- Constructed efficient PostgreSQL queries in a database with over 400 tables. Adhered to ACID database principles, including index and foreign key utilization.

## PROJECTS

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

- Created a contacts app that reminds you to reach out to your friends and family, leveraging **Twilio SendGrid** for reminder emails, **Amazon S3** for storing profile pictures, and **OAuth 2.0** for easy authentication.
- Wrote custom parsing logic to import contacts from external providers

## EDUCATION

### Candidate for Bachelor of Mathematics, Combinatorics and Optimization

Sept 2021 – April 2026

University of Waterloo — Term No. 3B

- Relevant Coursework:** Linear Programming, Nonlinear Optimization, Computational Discrete Optimization, Algorithmic Problem Solving

## ABILITIES & INTERESTS

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

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