# Evan Czako

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Portfolio
New York, NY

*Fullstack software engineer with a strong frontend focus and a passion for building intuitive, high-performance applications.*

## SKILLS

TypeScript, React, SolidJS, Zustand, Redux, Node.js, Python, Java, Ruby on Rails, Git, MATLAB, SQL, MongoDB, Express.js, Jest, Cucumber

## EXPERIENCE

**Fullstack Software Engineer**
**Bloomberg LP** | *Feb 2022 - Present*
*Primarily frontend-focused, with experience across the full stack*

- Developed and modernized internal web applications using a declarative framework inspired by React, incorporating Redux for state management and TypeScript across all layers.
- Built dynamic UIs to project cashflows across various mortgage-backed security asset sectors, integrating complex market input variables such as prepayment models and macroeconomic factors.
- Ensured code quality and maintainability through comprehensive Jest unit tests and Cucumber end-to-end automation tests.
- Collaborated closely with product stakeholders to refine technical requirements, manage expectations, and uncover opportunities to exceed feature goals.
- Contributed to the design and implementation of a signal-based reactivity framework internally, inspired by SolidJS and Angular signals.
- Mentored engineers from other teams on best practices for building applications with internal declarative frameworks.
- Utilized GitHub Copilot and ChatGPT daily to streamline development and improve code efficiency.

**Optical Process Engineer**
**ASML** | *July 2018 – April 2021*

- Wrote MATLAB programs and VBA macros to automate and accelerate the review of optical metrology data for both commercial and noncommercial modules.
- Compiled an executable MATLAB program allowing spindle polishing technicians to evaluate the surface figure error of optics in their workcenter, minimizing rework and saving several hours of processing time per optic.
- Scripted a new method of filtering surface figure data to improve compatibility with CNC MRF machines and increase the likelihood of successful MRF polishing runs.
- Facilitated pFMEA for optical metrology to identify and mitigate potential process risks.

## PERSONAL PROJECTS

**ChordFinder**
*SolidJS, TypeScript, CSS Modules, Web MIDI API*

- Built an interactive, frontend-only chord identification tool allowing users to input notes via an on-screen piano and receive matching chord suggestions (e.g., C–E–G–A → Cmaj6, Amin7).
- Implemented SolidJS reactivity and built-in state management to ensure smooth UI updates and responsive performance.
- Mobile-friendly, dynamic single-page app with support for MIDI input and intuitive interaction across devices.

**DoughLoops**
*React, Zustand, Tone.js, SQLite, CSS Modules*

- Designed and developed a web-based drum machine/step sequencer allowing users to build and save custom beats with configurable instruments, BPM, beat count, and subdivisions.
- Integrated Tone.js for precise audio scheduling and real-time sound playback.
- Built secure user authentication and beat persistence using a backend powered by SQLite and hosted on Render.com.
- Responsive, mobile-friendly design optimized for intuitive beat-making across screen sizes.

## EDUCATION

**Cornell University (Fall 2014 - Spring 2018)**

- BS - Materials Science & Engineering - Cum Laude

**App Academy (Summer 2021)**

- Immersive software development course with focus on full stack web development (3% acceptance rate, 1000+ hours).