

# Casey Primozic

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<https://cprimozic.net>

<https://github.com/ameo-bea>

## Work Experience

Detailed listing on LinkedIn: <https://www.linkedin.com/in/casey-primozic-1712a3120/>

**Osmos** | Full Stack Developer | Mar. 2020 - Jun. 2024

- Contributed to every part of Osmos's software stack, growing the company from pre-revenue to a mature series A-funded startup with many paying enterprise customers
- Built a complex distributed data ETL pipeline from scratch in Rust, processing up to billions of records/day
- Headed development of Osmos's core data transformation builder UI, capable of rendering millions of cells with sophisticated styling and logic performantly in the browser

**Stackline** | Full Stack Web Developer | Feb. 2019 - Mar. 2020

- Built out Stackline's two flagship software offerings consisting of advanced data-driven UIs in React
- Modernized and optimized backend services to reduce cost and improve response times for users

**Trabian Technology** | Full Stack Developer | Aug. 2017 - Apr. 2018

- Worked part time on client websites and mobile apps for banks and credit unions in React + React Native

## Education

**Valparaiso University**

*Bachelors of Science in Computer Science - Presidential Scholarship - Graduated Dec. 2018*

## Programming Languages + Technologies

- Diverse experience building, deploying, and maintaining full stack web applications from scratch
- 8 years of Rust experience (4 years professionally), 10+ years of JavaScript/TS + React experience
- Extensive experience with various databases, Kubernetes, GCP/AWS, Python ML/AI libraries, low-level optimization, shaders + 3D rendering, and whatever tool or technology solves a problem best

## Notable Projects + Accomplishments

Full list on my website: <https://cprimozic.net/portfolio/>

**Robintrack** | <https://robintrack.net> | Apr. 2018 - Aug. 2020

- Website that I built + maintained which tracked trends in retail trading on the Robinhood stock brokerage. Received significant media and institutional attention during the Covid pandemic
- Peaked at over 350k visits per month and up to 1,500 concurrent users
- I appeared in multiple live TV interviews for CNBC and Bloomberg talking about the site and the data.
- Site and dataset cited in dozens of academic papers: <https://scholar.google.com/scholar?q=robintrack>

**Web Synth** | <https://synth.ameo.dev> | Sep. 2018 - Present

- A fully-featured browser-based digital audio workstation including synths, DSP effects, a MIDI editor, sequencers, signal analyzers, and much more. All built from scratch with Rust, WebAssembly, TypeScript

**Music Galaxy** | <https://galaxy.spotifytrack.net> | Aug. 2021 - Oct. 2021

- Interactive 3D visualization of the relationships between over 70,000 musical artists. Built from an embedding I created using data from Spotify's API. Runs performantly even on modest mobile devices.

## Notable Writings + Blog Posts

[Reverse Engineering a Neural Network's Clever Solution to Binary Addition](#) - Jan. 2023

*561 points on Hacker News*

[Speeding Up the Webcola Graph Viz Library with Rust and WebAssembly](#) - Jul. 2021

*218 points on Hacker News*

[Self-Hosting Dozens of Web Applications and Services on a Single Server](#) - Dec. 2021

*511 points on Hacker News*