Daniel Kaspo

Software engineer & product founder · Michigan, USA

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Software engineer with 14 years of professional experience building web applications, from React and TypeScript front ends to Python and SQL data jobs and Docker deployments through CI/CD. Founder of a hardware product I designed, programmed, sell, and support. At Detroit Labs I was the only web developer on a client's team and mentored four to six newer developers. I write automated tests, build for accessibility, have been on call, and use Claude Code every day.

RECENT EXPERIENCE

keyboard.gg

Aug 2019 – Present

Founder

The Edgeguard keyboard-to-controller adapter

- Designed, built, and sell the Edgeguard, an adapter that lets players use a keyboard as a Nintendo Switch controller. On sale in beta since early 2023.
- Designed the PCB in KiCad around an FT900-series microcontroller, chosen because it can act as a USB host and a USB device at once. Worked with manufacturers on custom enclosures and cables.
- Wrote the USB firmware in C, including a HID layer that reads each keyboard's report descriptor and parses its reports, keeping n-key rollover where the simpler boot protocol gives it up. Integrated a collaborator's key-mapping engine.
- Built the browser configurator with JavaScript, React and WebUSB, and a WebAssembly layout encoder with a collaborator. It checks each adapter's firmware version and capacity before sending a layout.
- In 2026, used Claude to find the root causes of firmware problems with USB hubs and 8,000 Hz keyboards, and built a USB latency probe with it that measured the adapter's own processing at about 48 microseconds.
- Support customers myself over Discord, in DMs and a support channel, and get on calls to debug their setups. Set the first price with a "How much would you pay?" survey, then a Vickrey auction for the first public sale.

Detroit Labs

Oct 2017 – Dec 2025

Software Engineer

Client product teams and embedded delivery

- **Bedrock Detroit:** The only web developer on the client's marketing team of about 15, and its go-to for technical questions. Integrated Contentful with React; compared four CMS platforms and recommended Webflow.
- **Bedrock delivery:** Wrote the Azure YAML pipelines that deployed each passing pull request as Docker containers to preview and production. Cut image load times by almost 10 seconds by requesting CDN-optimized images.
- **Driveway:** In a pod of 4 to 6 on the financing section of a multi-team vehicle-purchase flow: implemented an animator's checkout motion with Lottie and built MJML email templates.
- **Quicken Loans · Rocket Professional:** Worked on a web app with client and loan workflows and mortgage rate sheets. Before launch, built cookie-based access so the client could test production behind its Coming Soon page, and researched a high-priority logout problem so the team could give the client options.
- **Lineage MetricsOne:** On a team of 10 to 14, built interfaces for a cold-storage operations dashboard.
- **Data jobs:** Wrote Python and SQL workers that routinely rebuilt an app's read tables from the client's source-of-truth tables, so the app could show data quickly.
- **Mentoring, hiring and estimating:** Mentored four to six newer developers, including interns. Onboarded teammates, led a junior developer on two-person projects, ran technical interviews, and estimated work for prospective clients.
- **Process, review and production:** Worked in Agile sprints and Waterfall projects in Jira and Confluence. Wrote PR testing steps and walkthroughs, helped manage Jenkins CI/CD, and handled production incidents after launches.

EARLIER EXPERIENCE

Barracuda Networks

Sep 2014 – Oct 2017

Software Engineer

- Worked on Copy.com and CudaDrive, consumer and enterprise cloud storage, including its Backbone.js web app.
- After those products were discontinued, moved to Barracuda Cloud Control and worked on its dashboard using React and ES6 JavaScript. Took turns on the team's on-call rotation.

MyEtherWallet

Jun 2017 – Jul 2017

Software Engineer

- Contributed to the next major version of MyEtherWallet's frontend.

Kensington Community Church

Apr 2012 – Sep 2014

Web Developer

- As the church's main web developer, rebuilt its fixed-width PHP website on the Arena church CMS with a responsive design using Foundation, working with the graphics team, and created CMS modules in C#/.NET.
- On my own initiative, built a giving kiosk from a leader's idea: a JavaScript app that loads gift cards through a USB card reader. The kiosks were on the church's main floor for the Christmas giving season.

New World Systems

May 2011 – Aug 2011

Intern

- Designed SQL Server Reporting Services (SSRS) reports and worked on website compatibility issues.

INDEPENDENT WORK

Flyweight

Windows video compressor, 2026

A free video compressor for Windows, made with Claude in a few hours. I decided what it should do and pushed back on weak defaults. Its quality setting was chosen by VMAF scoring. Project story.

Under-Desk Treadmill

Raspberry Pi conversion, 2018

Converted a treadmill for under-desk use: a Raspberry Pi Zero W, a Node.js and Express API, voice control and a web interface. Project story.

Yokai

Ghost blog hosting, 2013

Built a responsive signup website and Node.js provisioning service that created and hosted Ghost instances, with subscription payments. The service is now retired. Project story.

TECHNICAL TOOLKIT

Languages	TypeScript, JavaScript, Python, SQL, C, C++ (Arduino), PHP, C#/.NET, HTML, CSS
Web	React, Redux, Backbone.js, Node.js and Express, REST APIs, SQL Server, MySQL, Contentful
Delivery & cloud	Git, Azure YAML pipelines, Docker, Jenkins CI/CD, on-call, Linux server administration
Quality	Jest, Storybook, accessibility to WCAG AA and AAA, Chrome DevTools profiling, code review
Process & design	Agile sprints, Waterfall, Jira, Confluence, Trello, Figma, Lottie, MJML, pair programming
Hardware	C firmware, USB HID, KiCad, Arduino, WebUSB, WebAssembly
AI tools	Claude Code every day; OpenAI Codex; Figma with AI; Higgsfield for video

EDUCATION

Macomb Community College

2010 – 2013

Associate's degree, Computer Science