

Patrick Hulce

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Veteran software engineer with a passion for the web, JavaScript, and open source.

Engineering Experience

Founder, CEO, Engineer Eris Ventures *JavaScript, React, Electron* September 2018 - Present

Optyx App - Drove product from concept to completion, deep technical complexity from UI to AI.

- Developed [Optyx](#), an AI culling app that automatically selects the best photographs from a shoot using custom ML models, trusted by thousands of professional photographers.
- Managed a nimble remote team responsible for marketing, design, and product.

Web Performance Expert Consultant - Led engineering teams, advised non-engineering stakeholders.

- Bootstrapped the company with \$1M+ in multiple web performance consulting contracts.
- Led high-priority projects for Google including the third-party impact assessment for their [Core Web Vitals](#) launch in 2021, the cornerstone of new Google Search ranking incentives.
- Developed a reputation as one of the world's leading experts on third-party JavaScript performance ([media coverage](#), [academic citations](#), training requests from top-tier ad tech).

Open Source - Creator and maintainer of JS libraries depended on by more than 200k public repos.

- Primary maintainer on projects with cumulative [~30M monthly downloads](#), ~400 contributors.
- jpeg-js (~2.6M weekly), third-party-web (~460k weekly), Lighthouse CI (~100k weekly)
- Co-author of the 2019 Web Almanac (~126k readers, ~20 academic citations).

Software Engineer Google *JavaScript, C++* November 2016 - September 2018

- Engineer on Chrome and tech lead for Project Lantern, Google's browser simulation initiative.
- Maintainer of Lighthouse, the canonical open source performance measurement tool for web developers (1M+ MAUs, 23k stars) and embedded by dozens of other developer tools (including Chrome, PageSpeed Insights, WebPageTest, Calibre, SpeedCurve, Treo, GTMetrix).
- Author of the Performance category in Lighthouse, developed metric implementations, crafted optimization advice, and propelled the project to over a million MAUs from a few thousand.
- Fostered an inclusive open source community with hundreds of contributors, thousands of pull requests, and 2-hour median issue response times.

Software Engineer Solvvy *JavaScript, Java, Python* November 2015 - November 2016

- First engineer after an enterprise pivot, wore multiple hats: interfacing with customers, managing a remote engineering team, and developing everything across the stack.
- Built everything from administrative UIs to ML/NLP data pipelines to the public facing APIs.

Software Engineer BrightRoll (Acquired by Yahoo) *JavaScript, Scala* January 2015 - October 2015

- Full-stack engineer, rewrote BrightRoll DSP's search API reducing CPU usage by 70%.
- Built components to scale Yahoo's knowledge graph beyond 2B+ entities.

Multiple Engineering Roles *JavaScript, Java, Python, C#, PHP* May 2009 - August 2014

Google *JavaScript, Java* · **50onRed** *JavaScript* · **NextDocs** *JavaScript, C#*

Valkyrie Systems *JavaScript, PHP* · **The Game Guru** *JavaScript, PHP*

Education

University of Pennsylvania *summa cum laude*

Bachelor of Applied Science in **Computer Science** GPA 3.89 / 4.0

Personal Projects & Interests

(projects) www.mikescerealshack.co · hulce.link/introvert-activism · www.bardos.foundation

(interests) The Office · Photography · CoD: Warzone · Running · Spartan Races · Ultimate Frisbee