Patrick Hulce

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Education

University of Pennsylvania *summa cum laude*   December 2014

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

Work Experience

CEO & Founder **Eris Ventures** *JavaScript, Python, C++*   September 2018 - Present

- Bootstrapped a photography software company while consulting on web performance.
- Developed Optyx, an AI culling app that automatically selects photographs from a shoot for editing using custom computer vision models. Optyx processed more than 1 million user photographs in the first 60 days after launch during the COVID pandemic.
- Created Lighthouse CI and consulted for several top AdTech firms and startups.

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

- Engineer on Chrome DevTools and TL for Project Lantern, Google's next-gen web performance measurement engine highlighted at *Google I/O 2018* in *The Web: State of the Union*.
- Primary maintainer of Lighthouse, the web best practices auditing tool embedded in Chrome and powering Google Search's PageSpeed Insights tool for webmaster SEO advice.

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

- First engineer after an enterprise pivot, wore multiple hats: interfacing with customers, managing remote contractors, and developing everything across the stack.
- Oversaw all development throughout rapid prototyping and early product market fit phases.
- 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 on the UI and APIs for the BrightRoll DSP.
- Identified as one of Yahoo's top thirteen young software engineers and selected for the Engineering Associates Program by David Filo, co-founder of Yahoo.
- Architect of BrightRoll DSP's v2 search API, decreased CPU usage and error rates 70%.
- Built components to scale Yahoo's knowledge graph beyond 2B+ entities.

Intern **Google, others** *JavaScript, Java, Python, C#*   June 2013 - August 2014

- *Google* - Full-stack engineer on Google Photos. Developed a flexible JavaScript layout engine, the foundation of the Google Photos web client for Stories.
- *50onRed* - Front-end engineer on the client-facing advertiser platform. Developed web UI components and browser extensions to leverage the 50onRed marketplace.
- *NextDocs* - Full-stack architect behind NextDocs ETL product. Interfaced with clients to define product requirements and developed a SharePoint extraction and reporting tool.

Founder **Valkyrie** *JavaScript, PHP*   January 2011 - September 2012

- Created a complete publication management system for high school publications.
- Presented on digital workflows as an invited guest speaker at the Columbia Scholastic Press Association Spring Convention for two consecutive years.

Open Source Involvement, Published Works, Technologies I've Used

(creator) lighthouse ci. third-party-web . git3po . fontmin-webpack . eris-image - pptr-testing-library
(maintainer) lighthouse . jpeg-js . chrome-launcher . speedline
(published) authored chapter of Web Almanac 2019 - research covered by The Register, BBC News
(technologies) react . redux . angular . express . flask . play . webpack . jest . puppeteer . tensorflow