

I'm a software engineer obsessed with design. I love building high-quality digital interactions and developer experiences. I have professional experience working on full-stack web development, iOS apps and SDKs, developer tools, design systems, system deployment and devops. I'm passionate about fostering open-source community and sharing what I learn.

Work Experience

Stripe, Financial services technology company. <https://stripe.com>

2022 – Now *Docs Product Team*

- Led a frontend rearchitecture for stripe.com/docs/api that migrated the content from being rendered imperatively to being rendered with Markdoc, Stripe's declarative documentation authoring framework. Reduced p50 and p90 page latency by half and p99 latency by 75%, removed dependencies on Stripe's backend systems, enabled integration with our internationalization framework, and enabled technical writing staff to modify reference content where they could not previously.
- Shipped wiki-style "hover previews" for Stripe's documentation, letting users preview the content of a linked page before navigating.
- Represented Docs team in Design Systems Roundtable and in Web Accessibility Working Group.
- Contributed components to Stripe's frontend component library in collaboration with Design Systems team.
- Mentored junior engineers to become more comfortable in high-performance React code.

2019 – 2022 *Terminal Integration Experience Team*

- Developed Swift & Objective-C SDK that allows iOS apps to interact with Bluetooth- and internet-connected credit card (EMV) readers, used by 300+ front-of-house retail apps via Stripe Terminal product.
- Implemented iOS and Javascript APIs to integrate Stripe's SetupIntents APIs with Terminal, supporting Stripe Terminal GA launch to 12 countries.
- Added client-side API for processing in-person refunds for Canadian card brand *Interac*, unblocking Stripe Terminal launch in Canada.
- Built offline "store-and-forward" transaction support on iOS, unlocking \$20M addressable market. Developed encrypted and fault-resistant mechanism to store and sync offline transaction information.

2018 *iOS Dashboard App Team (Intern)*

- Added an interface to Stripe Dashboard for iOS that shows users a breakdown of their Stripe balance, bringing the app's Balances tab to feature parity with the web dashboard.

Other

- Built internal calendar management tool used by 40+% of the company, spread via word-of-mouth growth.

2017 **Okta**, Identity and authentication platform company. <https://okta.com>

Mobile Team (Intern)

- Upgraded Okta Mobile core networking framework to AFNetworking, removing 40k lines of custom code.
- Implemented Touch ID authentication in Okta Mobile, resolving a top feature request in App Store reviews.

Independent Projects

2020 – 2023 **Stork Search**, Web package for building full-text search experiences. <https://stork-search.net>

- Built and open-sourced an end-to-end web search interface written in Rust and compiled to WebAssembly
- Stork was used by 20+ websites, including vercel.com.
- Maintained online community: received 2700 stars on Github, provided hands-on support to users.
- Press attention: Spoke at Fission.codes, JamStack Boston meetup, interviewed by console.dev newsletter.

Education

2015 – 2019 **Bowdoin College**, Brunswick Maine. *BA in Computer Science; graduated May 2019 with High Honors*

- **Honors:** Sarah and James Bowdoin Scholar for 2015/16 academic year; Gibbons Fellowship Scholar for Summer 2016; Awarded the Computer Science Senior-Year Prize.
- **Extracurricular Projects:** Built <https://bowdoinorient.com>, a WordPress-based website for the student newspaper. Built computer vision software for robots playing soccer in international tournaments, including center-circle detection and a new dribble motion mechanism.

2018 **Aquincum Institute of Technology**, Budapest, Hungary. *Semester Abroad Program*

- Selected Coursework: Applied Cryptography, Computer Vision for Digital Cinema, Computer Graphics

Technical Skills

Languages: Typescript/Javascript, Ruby, Rust, Swift, Objective-C, Java, Python, C++, PHP, SQL, HTML5, CSS and more!

Software & Tools: React, Next.js, Vercel, PostgreSQL, Figma, Cargo, Actix-web, Linux/UNIX, Docker, AWS, Jira, Git, Github

Concepts: API design, Developer tool design, Database schema design, Declarative UI, HTTP, REST, TDD, OOP, MVC, MVVM