

JOHN SULLIVAN

Email • GitHub

Shmeppy Lead Software Engineer & Founder

2018 – Present

TypeScript React.js PostgreSQL Vite Node.js Rust

- Built a feature-rich map editor using React, TypeScript, and the Canvas API with multi-user collaboration supported via the [operational transformation](#) algorithm and WebSockets.
- Wrote analytics pipelines using Rust to quickly process over 500 million log messages and support data-driven decisions.
- Optimized the onboarding funnel to attract 27 thousand users who built 80 thousand maps.
- Hired, managed, and mentored a junior developer to grow the team to two.
- Built a robust subscription system using Stripe Elements.
- Set up automated backups in [b2](#) as well as monitoring and alerting via Sentry and Cron.

Primer Learning Staff Software Engineer (Part-Time Contract)

2022 – 2023

Built Unity simulations and editor extensions for their YouTube channel with 1.7M subscribers.

Khan Academy Senior Software Engineer

2016 – 2018

JavaScript React.js Python Google Cloud Platform BigQuery Selenium

- Led a team of five to display different content trees to users in various locales. Developed new content editing tools for creators. Completed fundamental infrastructure allowing code to seamlessly access the new trees. Educated other teams on the new infrastructure.
- Proposed, designed, and co-built a cloud-based end-to-end testing system, and directly negotiated for free infrastructure from [Sauce Labs](#).

Khan Academy Software Engineer

2014 – 2016

- Built the frontend for the launch of Official SAT® Practice. Then led a team of four to expand its functionality and lay a foundation for other test prep products. Promoted shortly after.
- Created [Khan Academy's original engineering blog](#) and encouraged contributions to it.

Various Companies Freelance Software Engineer

2007 – 2013

Python C# WPF Visual Basic 6

Completed over 20 contracts in various industries with terms ranging from 1 to 36 months.

Additional Experience

- Interned at [Mozilla](#), [JetHead Development](#), and [Khan Academy](#).
- Taught Computer Science as a Supplemental Instructor at [UC Riverside](#).
- Co-founded [Galah Group LLC](#).