

JOHN SULLIVAN

Email • GitHub

Shmeppy Lead Software Engineer & Founder

2018 – Present

TypeScript React.js PostgreSQL Vite Node.js Rust

- Founded the modestly successful SaaS product [Shmeppy](#) boasting over 800 active subscribers. One junior developer handles maintenance.
- Built a delightful map editor on the Canvas API with many-user collaboration supported via the [operational transformation](#) algorithm.
- Built analytics pipelines and tools to support informed, data-driven decisions.
- Created payment flows, backup & monitoring systems, marketing campaigns, and much more.

Primer Learning Staff Software Engineer (Contract)

2022 – 2023

C# Unity

- Built Unity editor extensions and physics simulations for Primer Learning's popular YouTube channel.
- Helped hire and onboard their first full-time developer.

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; and educated other teams on the new infrastructure.
- Proposed, designed, and co-built a cloud-based end-to-end testing system and directly negotiated free infrastructure for it from [Sauce Labs](#).

Khan Academy Software Engineer

2014 – 2016

JavaScript React.js Google App Engine Gulp.js

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

Mozilla Software Engineer Intern

2014

C++ Networking Android

Improved the networking stack for all products and researched mesh networking for Firefox OS.

Khan Academy Software Engineer Intern

2013

Python AWS JavaScript Bash

Created a custom search engine built on AWS CloudSearch.

JetHead Development Software Engineer Intern

2012 and 2013

C++

Built the entirety of the closed captioning systems for their suite of set-top boxes.

UC Riverside Supplemental Instructor Supervisor

2013 – 2014

UC Riverside Supplemental Instructor

2011 – 2013

C++ Python

Taught computer science to fellow college students as well as managed and trained other teachers.

Galah Group LLC Cofounder

2012 – 2014

Python Flask OpenVZ Containers

Cofounded **Galah Group LLC** in college. Developed a product for testing CS students' submissions in isolated OpenVZ containers. UC Riverside used it for many years, including after we sunsetted the product.

Various Companies Software Engineer (Contract)

2007 – 2013

Python C# WPF Visual Basic 6

- Completed over 20 contracts ranging from 1 to 36-month terms during high school and college.
- Contracted to build **ColorTrack Realtime**: a desktop application that analyzes samples from a custom-built laser. Built in C# using WPF.
- Contracted to build a clone of the **Microsoft Ribbon** in Visual Basic 6.