

# JOHN SULLIVAN

Email • GitHub

## Shmeppy Lead Software Engineer & Founder

2018 – Present

TypeScript React.js PostgreSQL Vite Node.js Rust

- Founded the SaaS product [Shmeppy](#) which has over 800 active subscribers.
- Built a delightful map editor on the Canvas API with many-user collaboration supported via the [operational transformation](#) algorithm.
- Created the business independently until recently hiring a junior developer, growing the team to 2.
- 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 [Khan Academy original 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.