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.

Education UC Riverside 2010 – 2013

Pursued BSE in Computer Science. Left early after receiving an offer from Khan Academy.