John Sullivan

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Shmeppy – Lead Software Engineer & Founder   2018 – Present

- Built a map editor from end-to-end using Node.js, React, TypeScript, and the Canvas API with multi-user collaboration supported via operational transformation and WebSockets.
- Developed analytics pipelines in Python and Rust which processed 500M logs daily and accurately predicted the results of the launch of premium accounts.
- Optimized the onboarding funnel to attract 27K users who built 80K maps.
- Built an entire subscription system on Stripe Elements to support 800 active subscribers.

Khan Academy – Senior Software Engineer   2016 – 2018

- Led a team of five to display different content libraries to users in various locales. Onboarded other Senior Engineers and conducted end-user interviews and high-level design.
- Architected new in-house editing system for an internationally distributed team of content creators that tightly integrated Crowdin with our React, Python, Flask, and Google App Engine powered editing platform.
- Proposed, designed, and co-built a Selenium end-to-end testing system.

Khan Academy – Software Engineer   2014 – 2016

- Built the React frontend for the launch of Official SAT® Practice, led a team of four to lay a foundation for new test prep products, and was promoted shortly after.
- Championed adoption of Flux (later Redux) across the company.
- Created Khan Academy's original engineering blog and encouraged contributions to it.

Mozilla – Software Engineer Intern   2014

Decreased DNS lookup latency on all Mozilla products by leveraging OS caches (using C++).

Khan Academy – Software Engineer Intern   2013

Rebuilt their search engine reducing indexing latency from days to minutes and improving engagement.

JetHead Development – Software Engineer Intern   2012 and 2013

Rebuilt the entirety of their closed captioning systems, drastically improving their products' reliability.

John CS Development – Software Engineer (Part-Time Contracts)   2007 – 2013

Completed over 20 contracts including building ColorTrack Realtime's desktop interface and a CMS for a senior community home broker with C# and WPF, and a ribbon toolbar with RTL language support with VB6.

Additional Experience

- Taught C++ and Python as a Supplemental Instructor at the University of California, Riverside.
- Co-founded Galah Group LLC and built a product with MongoDB, Flask, and OpenVZ containers.