John Sullivan

20+ years programming with a growth mindset

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Shmeppy Sole Proprietor   2018 – Present

`Javascript` `React.js` `PostgreSQL` `Node.js` `Rust` `Stripe` `Operational Transformation`

- Created Shmeppy: a collaborative map editor for playing D&D and other TTRPGs remotely.
- Designed a user aquisition funnel that grew Shmeppy to 23,000+ users.
- Created an efficient backend that has supported 55,000+ maps made up of 30+ million operations.
- Implemented a novel set library to help with traffic analysis.

Khan Academy Senior Software Engineer   2016 – 2018
Khan Academy Software Engineer   2014 – 2016
Khan Academy Software Engineer Intern   2014

`Python` `GAE` `Javascript` `React.js` `BigQuery` `Selenium` `Aphrodite`

- Drove a successful multi-year, many-person effort to give users a locale-specific experience.
- Built the frontend for Official SAT® Practice's launch and then lead development across its stack.
- Represented the dev team in a long collaboration with College Board's engineers.
- Created the end-to-end testing system and negotiated free infrastructure for it from Sauce Labs.

Mozilla Software Engineer Intern   2014

`C++11` `Networking` `Win32` `Bionic`

Modernized the DNS system for Mozilla's products.

Galah Group Cofounder   2012 – 2014

`Python` `uWSGI` `Nginx` `MongoDB` `ZeroMQ` `OpenVZ` `Flask` `Vagrant`

- Created Galah: an automated grading system for programming assignments.
- Galah graded 150,000+ submissions in isolated OpenVZ containers.

JetHead Development Software Engineer Intern   2012 and 2013

`C++` `CEA-608` `CEA-708` `Bash`

Built the closed captioning system for their suite of set top boxes.

UC Riverside Supplemental Instructor Supervisor   2013 – 2014
UC Riverside Supplemental Instructor   2011 – 2013

Taught college students computer science.

Freelancer   2007 – 2013

`Visual Basic 6` `Win32` `C#` `WPF` `NI-DAQmx`

Completed 20+ contracts ranging from 1 to 36 month terms.