

# JOHN SULLIVAN

20+ years programming with a growth mindset

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## WORK HISTORY

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### Shmeppy Sole Proprietor

2018 – Present

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

- Creating Shmeppy: a collaborative map editor for playing DnD and other TTRPGs remotely.
- 23,000+ users have created 55,000+ maps.

### Khan Academy Senior Software Engineer

2016 – 2018

### Khan Academy Software Engineer

2014 – 2016

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](#).

### Freelancer

2007 – 2013

Visual Basic 6 Win32 C# WPF NI-DAQmx

- Completed dozens of contracts of various lengths.
- Created a system that allowed coffee roasting factories to analyze the quality of their beans.
- Ported the popular [Microsoft Ribbon](#) to Visual Basic 6.
- Created a suite of tools for a senior community home broker to manage his clients and homes.

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## WORK HISTORY (DURING COLLEGE)

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### 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 received and graded 150,000 submissions at UC Riverside.

## Khan Academy Software Engineer Intern

2014

Python GAE Javascript Amazon CloudSearch Nginx Vagrant Bash

Built their on-site search engine.

## 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

C++ Python

Taught college students computer science.

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## INTERESTING SIDE PROJECTS

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### Grassy Knight

C# Unity

A mod for the game Hollow Knight that shows you the amount of grass you've cut in-game. Used by the streamer [Skurry](#) to complete [a speed-run of the game](#).

### Particles (Demo)

Javascript C SDL

A fun toy based on the [Liquid Particles Chrome Experiment](#). Originally written in C.

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## EDUCATION

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### Self-Taught

2000 – Present

### University of California, Riverside

2011 – 2014

I left while I was in Junior standing in order to join Khan Academy. I was pursuing a BE in Computer Science and had a 3.285 GPA.