

# Brandon Blaylock

(949) 288-3884 · [brandon@blaylock.dev](mailto:brandon@blaylock.dev) · <https://blaylock.dev>

## WORK EXPERIENCE

### Ntersol

Senior Frontend Engineer

July 2019 - Present

Implemented **functional programming** paradigms in **Angular**. Defined and implemented standardization practices for **api integration**, **ui structure**, and **semantic component design**. Created code generators for **api validation**, **error handling**, **logging**, and **caching** in frontend applications.

### Lodasoft

Senior Software Engineer

July 2018 - July 2019

Designed and built highly dynamic production web portals for loan agents and borrowers to manage document submission and validation. Designed and built a generalized task tree builder and runner in **Angular**. Implemented **batched logging** from the front end, a front end **monorepo**, and **application documentation**.

### Loan Depot

Senior Software Engineer

January 2018 - July 2018

Built the highest traffic customer portal application in **Angular** along with two other production applications. Documented and implemented **best practices** for front end engineering to enable better **code sharing**, **small compilation** bundles, and **robust coding standards**.

### Shoutpoint

Software Engineer

May 2017 - Dec 2017

Frontend and middleware software engineer. Built applications in **AngularJS**, **Angular**, **Typescript**, **Ngrx**, **Nodejs**, **Express**, **rxjs**, and a large collection of open source libraries. I also collaborated with the IT team towards implementing **containerization** and starting a migration to **Kubernetes**. I established Angular standard practices including **reactive forms design**, **component encapsulation**, **templating**, and **project architecture**.

### Keyboard Cowboys

Consultant / Software Engineer

Oct 2006 - Dec 2017

Offered consulting services covering **software engineering**, **systems administration**, **custom application development**, **break fix**, and **web development**.

### Shoutpoint

Systems Administrator

Sept 2013 - Dec 2015

Designed and maintained infrastructure. Developed internal IT tooling (**Bash**, **Node.js**, **Xen** automation). Used **Ansible**, **Ansible Playbooks**, and **Custom Ansible Modules** to deploy vms and internal applications. Built tooling to manage **yum** and **apt** repositories and deployment of Puppet manifests. Worked heavily with **Puppet**, specifically to manage **DNS** and **NTP** servers.

## SUMMARY

I am an experienced full stack software engineer primarily working with **Angular**, **React**, and **Node.js**. I am operating system and build chain agnostic, but I have a soft spot for SmartOS and OS X. My background in theoretical mathematics lends itself handily to general problem solving, rigorous analysis, and implementation nuances. I'm a strong proponent of the idea that systems and systems software can and should be provably correct.

## SOFTWARE SKILLS

EXCELLENT	Angular, Angularjs, Ngrx, React, Redux Reactive Programming, SmartOS, Linux, Unix, Windows, Node.js, DNS, Puppet, TFTP, DHCP, Nginx, Xen, KVM, Iptfilter, Ansible, ZFS, Bash, OS X
INTERMEDIATE	Python, FreeBSD, MySQL, dtrace, Redis, Apache, L <sup>A</sup> T <sub>E</sub> X, T <sub>E</sub> X
BASIC	Photoshop, SolidWorks, Rust

## HARDWARE SKILLS

EXCELLENT	Dell x86 Servers, Serial Connection Pinouts, Apple Hardware, Data Center Design, Fiber and Copper cabling, Teensy 2.0, Beaglebone Black
INTERMEDIATE	CHIP, Teensy 3.2

## PUBLIC PROJECTS

### @nll/dux

[github.com/nullpub/dux](https://github.com/nullpub/dux)

Recent

Redux, NGRX, and Flux tools in typescript to drastically reduce boilerplate (by 90)

### @nll/datum

[github.com/nullpub/datum](https://github.com/nullpub/datum)

Recent

An abstract data type in the style of fp-ts. It represents the Option (or Maybe) type with the added cross product of a pending state.

### @nll/api-codegen-ts

[github.com/nullpub/api-codegen-ts](https://github.com/nullpub/api-codegen-ts)

Recent

A minimal config code generation library. While generalized it currently only parses swagger or openapi specs into typescript types, controllers, and state management tools.

## EDUCATION

### Bachelors of Science in Mathematics

University of California, Irvine

2014 - 2017

*Incomplete* My focus is in pure math with particular attention paid to Abstract Algebra and Galois Theory.