

# Zack Allen

[Github 1](#) [Github 2](#) [Github 3](#) [hireme@zallen.net](mailto:hireme@zallen.net)

## Interests

I enjoy projects where I can empathize with the end user. My areas of interest include:

- developer tooling
- public welfare
- electronic trading
- Bible study

## Technologies

I am a full-stack developer with no preferred language or framework. I consider myself proficient in:



## Experience

I have been programming since 2005. I am comfortable writing software for any platform.

### Polygon.io Software Engineer 2021-10 - 2022-11

- Implemented packet capture and upload for high-frequency [OPRA](#) feed using an [ASIC card](#) and [Systemd units](#).
- Wrote data pipeline tools for S3 files and deployed them as [Kubernetes](#) jobs.
- Wrote and maintained a [Python client library](#) for customers.
- Made Raspberry Pi image based off [Raspbian](#) to login to websites using [ChromeDriver](#) for office TV dashboards.

### Red Hat Build Engineer 2019-02 - 2021-10

- Refactored a [React component library's documentation](#) to use a shared language for both designers and developers.
- Optimized [PatternFly](#)'s bundle sizes using [Webpack](#).
- Wrote a lightweight TypeScript transpiler plugin for [Acorn](#) to implement a [live TypeScript editor](#).
- Wrote [Date Picker](#) and [Scroll Spy](#) components.

### NCSU Research Assistant 2017-05 - 2018-12

- Researched methods to wirelessly stream low latency video to an embedded device. Achieved 0.02 seconds of latency.

### LexisNexis Devops Intern 2018-05 - 2018-08

- Maintained microservice deployments using [Gradle](#) and [Jenkins](#) on [AWS](#).
- Wrote live service health-check dashboard using [Splunk](#).
- Wrote proof-of-concept secret management system for Jenkins jobs using [Hashicorp Vault](#) and [AWS KMS](#).

### Lambert's Cable Splicing Software Developer 2015-06 - 2017-06

- Created [Microsoft SQL database](#) for asset tracking system. Wrote CRUD Microsoft .NET application for it in VB and C#.
- Replaced Microsoft IE webdriver with [Selenium](#).

## Unpaid

- [Zig contributor](#) and library developer
- [Open Bible](#) lead developer
- [Dawesome](#) lead developer (WIP)