

Zachary Collins

Developer with 7 years of Programming experience.

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Portfolio: <http://zachary-collins7.github.io/>

Top Skills

- **Programming Languages:** Typescript/Javascript | Swift | Python | PHP
- **Framework/Platforms:** ReactJS | NextJS | Laravel | SwiftUI | .NET
- **Databases:** MYSQL | MongoDB | MariaDB | Sqlite3

Personal Projects

Portfolio Website

May 2022

- Deployed using NextJS SSG to Github Pages (uses a work-tree branch instead of main)
- Site features a fully decked-out SEO (including sitemap and robots.txt), color themes, Google Analytics, and a custom 404 page.
- Uses SCSS modules (non-decorated) to prevent CSS class-name collisions.
- Uses typescript for live type-checking and to give confidence in deployed code.

———— NextJS
———— ReactJS
— Typescript
———— SCSS
———— NPM

Professional Experience

Expert Ready – Developer Tulsa, OK

Sept 2019 – Oct 2020

- Designed and implemented an event processing system that eliminated monthly bugs and unified system management. The system provided an 80% reduction in support tickets and a traceable log of events which aided development and greatly improved the system's performance and reduced the number of support tickets.
- Developed a data generation tool to migrate data tables to streamline the customer's workflow. Streamlining reduced on-field table conversation and minimized user error.
- Migrated customers to new deployment environments. Learned and applied the end-to-end process of developing and deploying a web application from environment initialization to DNS configuration.

———— Laravel
———— PHP
———— Docker
———— K6

ITRS Group – Intern Tulsa, OK

May 2019 – Sept 2019

- Head of Global Strategy mentored me about product competition and the Gartner Magic Quadrant. Created "battle cards" comparing our product with competitors.
- Designed and implemented a Nagios compatible plugin for OP5 Monitor. Utilized command-line options and comprehensive exception handling.
- Created a scalable Docker stack implementing Nginx for load balancing containers running web servers.

———— Python
———— Bash
— Nagios API
— Web API

Samp Innovations – Consultant
Tulsa, OK

May 2019 – July 2019

- Worked on a .NET application to create a web form with client-side validation and inserted that data into an SQL database. ——— .Net
———— JS

Oklahoma Aquarium – Consultant
Jenks, OK

Feb 2019 – Jun 2019

- Designed and developed a mobile app for people touring the aquarium. Presented information about each fish through quizzes and prompts. ——— Swift
– Objective C

Robotics Experience

Robotics Experience – Team Leader/Lead Programmer

2017 – 2020

- Lead FTC team 11572 - a team of 10 to design and create a robot ——— Java
- Competed at the world level against 70+ countries. ——— Python
- Independently learned and applied control systems to autonomously complete challenges. ——— CAD

Invited to MIT

2018

- Completed a prerequisite programming/Linux course and was invited based on merit. ——— Python
- MIT Department leads and partnered technology corporations mentored us through various control systems and technologies. – TensorFlow
- Project-based learning allowed us to implement many modern technologies including Event, State, and SLAM architectures, PID controllers, IMU, Lidar, and Stereoscopic cameras. ——— ROS