Zachary Collins

Developer with 7 years of Programming experience and a passion for creating
Portfolio: http://zachary-collins7.github.io | Github: https://github.com/Zachary-collins7

Top Skills

- **Programming Languages:** Python | Typescript | Swift | PHP
- Framework/Platforms: NextJS | ReactJS | SwiftUI | Laravel | .NET
- Databases: MySQL | MsSql | MongoDB | MariaDB | Sqlite3
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Professional Experience

Comcast - Python Developer III - Contract Durango, CO

Aug 2022 - Aug 2023

database nodes - all of various types including mysql, mssql, Oracle, and Teradata. This effort --- Selenium yielded valuable analytics about database functionality, user access, and credential verification. _____ EC2 Collected data was processed further before being fed into a web application. Notably, the resulting web application empowered Data-Auditors to efficiently pinpoint tables ---- Mysal for deeper analysis, saving significant time that was previously lost to firewall challenges and — MongoDB manual interactions. Tables queued for analysis were then processed by a separate Python program that connected and queried the database nodes, sending the results back to the web application for display. — Oracle The project's efficiency-focused design included the use of threads and processes to speed up Postgresgl the entire process. DynamoDB Lead the creation of a Python library dedicated to web automation testing, overseeing its Teradata development to evaluate the operational integrity of an in-house web application Engineered with a strong focus on programmer accessibility, the library was thoughtfully ---- Redis architected utilizing many design principles that contributed to its robustness. Among these principles, the builder pattern stands out, as it allowed for a simple interface which made the library fast to pick up and tests built with it easy to read. Actively engaged and collaborated with fellow team members across teams to resolve various

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.

operational challenges as they surfaced, highlighting my strong aptitude for collaborative

problem-solving and contributing to a harmonious team environment.

Deployed using NextJS static site generation to Github Pages (uses a work-tree deployment branch alongside the main branch)
 The 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.

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. 	TensorFlowROS
• Project-based learning allowed us to implement many modern technologies including Event,	NO3

Education

University of Tulsa Computer Science Aug 2020 - May 2021 **Tulsa Community College** Gen Eds 2018 - 2020

State, and SLAM architectures, PID controllers, IMU, Lidar, and Stereoscopic cameras.

Home School High School Diploma 2016 - 2020