Troy Ballinger

Full Stack Software Engineer

troyballinger.com
linkedin.com/in/troy-ballinger
troyballinger97@gmail.com

SKILLS

Languages: JavaScript / TypeScript • Java • C / C++

Tools: MongoDB • GraphQL • Node • React • ElasticSearch • SQL • Kubernetes / Docker

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer - Shippabo   **Aug 2021 - Nov 2023**

– Implemented: live maps with 3rd-party GPS data + automated vessel tracking, personalizable widgets + user dashboards, login pages + authentication flows, Stripe payment integration, and many more features

– Followed *Clean Architecture*, spearheaded web accessibility improvements, and wrote lots of documentation

– Improved performance of large GraphQL queries, improved MongoDB and ElasticSearch indexing

– Sped up and improved reliability of automated testing (Jest/Playwright), and reduced size of Docker images

– Responsibilities included: releasing builds to production, migrating production data, reviewing pull requests, documentation of proposals and tasks, and hotfixing bugs

Technologies: GraphQL, TypeScript, MongoDB, React, Node, ElasticSearch, Kubernetes, Docker, GCP

Associate Software Engineer - Gartner   **Feb 2021 – Jul 2021**

– Created microservices and improved upon legacy code in 5+ libraries pushed to production

– Implemented a system to dynamically generate PDFs from given datasets, rated 4.8/5 in customer interviews

Technologies: Java, JavaScript, React, Node, Spring, AWS, Jenkins, Docker

Full Stack Software Engineer - Ramagine   **May 2019 – Jun 2020**

– Launched a collaborative platform that enabled security teams to upload malicious files and analyze their source code safely in-browser, with version control and ability to modify and comment on source code

– Expanded onto open source NSA software to disassemble malware in a sandboxed cloud environment

– Guided contractors, actively participated in weekly strategy meetings with company founders, personally wrote a majority of the codebase, pitched product to cybersecurity companies and investors during DEFCON

Technologies: JavaScript, React, Java, MongoDB, Google Cloud, Auth0

EDUCATION

Binghamton University - *Thomas J. Watson College of Engineering*   **Sep 2016 - May 2020**

B.S. Computer Science, cum laude

Coursework: Data Structure & Algorithms, Automata Theory, Design & Analysis of Algorithms, Operating Systems I/II, Adv. Object-Oriented Programming, Adv. Computer Architecture, Software Project Management

PROJECTS

AI Car Recognition for Garage Doors - *Binghamton University*   **Sep 2019 – Dec 2019**

– Built a server with API, Android app, and Firebase DB, that worked together with OpenALPR and a camera to recognize approaching cars' license plates and automatically open garage door if the car is recognized

– App allowed users to store known plate numbers in DB, notified the user upon approach of an unknown vehicle, sent a picture, and allowed the user to remotely open/close the door; project ranked 1st in class