

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 • GCP • Kubernetes / Docker

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer - Shippabo

Aug 2021 - Nov 2023

- Implemented: live maps integrated with 3rd-party GPS data + automated vessel tracking, personalizable widgets + user dashboards, login pages + auth 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, addressing customer needs, and hotfixing bugs

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

Associate Software Engineer - Gartner

Feb 2021 – Jul 2021

- Created microservices and refactored code for readability + performance 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 + 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 for known vehicles
- 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