Troy Ballinger

Full Stack Software Engineer

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SKILLS

Languages: TypeScript / JavaScript ES6+ • Java • C / C++
Tools: MongoDB • GraphQL • Node • React • ElasticSearch • SQL • GCP • Kubernetes / Docker

PROFESSIONAL EXPERIENCE

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

– Built maps capable of displaying hundreds of vessels' real-time locations simultaneously, vessel data was augmented by a ML model for accurate estimations of arrival/departure dates
– Created personalizable widgets + user dashboard on the homepage of the app, recreated login pages and the authentication process for better security and accessibility, revamped user onboarding by adding Stripe and DocuSign integrations, and improved responsiveness of large tables + GraphQL queries through optimistic UI
– Worked with PubSub, message queues, Google Cloud Tasks, and webhooks for 3rd-party data ingestion
– Followed *Clean Architecture*, spearheaded web accessibility improvements, and wrote lots of documentation
– Sped up and improved reliability of CI automated testing (Jest/Playwright), reduced size of server Docker images, and improved indexing of MongoDB and ElasticSearch
– Regularly released builds to production, migrated production data, reviewed pull requests daily, wrote and estimated tickets, worked across teams to secure user feedback, and hotfixed priority 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 performance + readability 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, cloud-based platform that enabled security teams to upload a malicious file and analyze its source code safely in-browser, with version control and source code comment + modification abilities
– Expanded upon open-source NSA software to disassemble malware in a sandboxed cloud environment
– Wrote most of the codebase, actively participated in weekly strategy meetings with company founders, 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