Troy Ballinger

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PROFESSIONAL EXPERIENCE

Shippabo, Los Angeles, CA   Aug 2021 – Present
Full-Stack Software Engineer
– Implemented and actively maintain multiple features across the platform, using TypeScript / Node / React, and MongoDB
– Communicate across multiple teams, review pull requests, and triage bugs as they arise

Gartner, Stamford, CT   Feb 2021 – Jul 2021
Associate Software Engineer
– Created microservices for the front-end using Node / React and back-end using Java / Spring and improved upon legacy code in 5+ libraries pushed to production, practiced an Agile workflow
– Designed API for dynamically generated data presentations rated 4.8/5 in customer interviews
– Responsible for building and deploying new features to AWS using Jenkins, Kubernetes, Docker, and Maven

Ramagine, Los Angeles, CA   May 2019 – June 2020
Full-Stack Software Engineer
– One of two engineers that launched a collaborative platform for reverse engineering malware samples remotely by modifying opensource NSA code for in-browser, server-side disassembly with scripting and code-commenting capabilities
– Designed and created a microservice architecture using Docker to form a RESTful API in Node and Java
– Utilized MongoDB for user analytics, Auth0 for authentication, built front-end in React
– Pitched product to cybersecurity companies during DEFCON in August 2019, actively guided front-end contractors with React, and actively participated in weekly strategy meetings with company founders

Research Foundation of SUNY, Binghamton University   Apr 2017 - Sep 2017
Research Aide
– Research focused on SQL injection, XSS attacks, and mitigating risk of data breaches within Binghamton's external network
– Created a secure app (PHP / MySQL) for user-made forms, HR department used app to create health forms for new lab hires
– Responsible for standardizing and approving all updates on Binghamton University website via OmniUpdate

SKILLS

Languages:	JavaScript / TypeScript, Java, C / C++, Rust, Assembly, CSS, HTML
Tools:	Git, Docker, Jenkins, Google Cloud, AWS, Kubernetes
Tech:	Node, MongoDB, React, Spring, OAuth, SQL, NGINX

EDUCATION

Binghamton University, Thomas J. Watson College of Engineering   Sep 2016 - May 2020
B.S. Computer Science, *cum laude*

Relevant 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
– Deployed a Node server on Raspberry Pi + Camera that detects approaching vehicles and uses OpenALPR's AI to validate cars against Firebase DB of known vehicles managed in the Android app via API
– Paired API with Android app that gets notifications + pictures of approaching cars; user can approve/deny entry remotely
– Coordinated meetings, wrote the server code, scripted four presentations, and was ranked 1st of 10 teams for project

SEO/Website Revamp, Evident Thermoelectrics   Jun 2015 – Aug 2015
– Launched a dynamic product suggestion tool on company website using JavaScript; secured a sales inquiry referencing tool's recommendation within 24 hours of going live; maintained website code via Joomla!
– Expanded market reach by improving website SEO, shortening load times, and making social accounts on behalf of company

ACTIVITIES & LEADERSHIP

Upsilon Pi Epsilon, Binghamton University   Feb 2019 – May 2020
CS301: Ethical, Social, & Global Issues in Computing, Binghamton University   Jan 2019 – May 2019
Teaching Assistant
– Graded, corrected grammar/MLA formatting, and fact-checked students' technical research papers weekly
– Presented on technical writing techniques and the implications of current events within the computer science community