

Troy Ballinger

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PROFESSIONAL EXPERIENCE

Gartner, Stamford, CT

Feb 2021 – Present

Associate Software Engineer

- Created micro-services for the front-end (Node/React) and back-end (Java/Spring) and improved upon legacy code in 5+ libraries pushed to production, practiced an Agile workflow
- Wrote out API for dynamically generated presentations rated 4.8/5 in customer interviews
- Responsible for building and deploying new features to EKS 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, and wrote over 10,000 lines of code
- 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 to the Binghamton University website via OmniUpdate

SKILLS

Languages: Java, JavaScript, C, C++, Rust, PHP, Prolog, Haskell, Assembly

Tools: Git, Docker, Jira / Atlassian, Jenkins, Google Cloud, Kubernetes, AWS, NGINX, UNIX Shell

Tech: MongoDB, Node, React, Spring, OAuth, SQL, CSS, HTML

EDUCATION

Binghamton University, Thomas J. Watson College of Engineering

Sep 2016 - May 2020

B.S. Computer Science, *cum laude* 3.5

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

Adv. Object-Oriented Programming, Binghamton University

Spring 2019

- Projects in C/C++ included creating: a map class using an internal skip list; a thread-safe, reference-counting smart pointer; a deque in C to simulate C++ templates using only preprocessor macros; and a functional shell simulator

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

Association of Computing Machinery

Apr 2019 – Present

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