Dominic Brown

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🏴 dominicbrown.dev

EDUCATION

Computer Science, Track in Security   2021
North Carolina State University   Raleigh, NC
- Extended CDLang, a network compliance framework, to utilize the P4Runtime API in GoLang, allowing network administrators to rapidly test control plane logic in a software-defined network
- Investigated automating reproducible Android web crawls using Puppeteer to aid in online privacy research
- **Relevant Coursework:** Network Security, Computer Security, Privacy, Cryptography, DevOps

RELEVANT EXPERIENCE

Software Engineer   05/2018 – present
Elsevier Inc   Raleigh, NC
- Developing new authoring features on a Spring-based care plan authoring application, allowing users to translate and package document data for electronic health vendors
- Designed and implemented cross-subdomain authentication, allowing users to seamlessly transition between web applications without needing to reauthenticate
- Automating code quality gates using SonarQube and Jenkins to enforce coding standards
- Optimizing Hibernate mapping to improve application responsiveness and reduce database overhead
- Implementing catalog data ingestion using OracleSQL to give authors access to the latest content

President   01/2021 – 12/2021
HackPack Security Club, North Carolina State University   Raleigh, NC
- Creating cybersecurity learning resources to teach new members ethical hacking fundamentals
- Developed challenges for HackPackCTF, an annual Capture the Flag (CTF) competition hosted by the club and NCSU faculty
- Planning weekly meetings and organizing practice challenges to help members prepare for CTF competitions

Associate Support Engineer   05/2017 – 05/2018
Connecture Inc.   Durham, NC
- Organized and delivered a log aggregation solution using Elastic Stack to track and diagnose errors in a AWS-hosted microservice product
- Formulated a training course to teach the support team to use Elastic Stack efficiently
- Working alongside the DevOps team to deploy, upgrade, and support multiple microservices

QA Automation Intern   08/2016 – 05/2017
Connecture Inc.   Durham, NC
- Delivered automated front-end tests using Geb and Selenium
- Transformed manual tests into automated API tests using Spock, a Java framework

SKILLS

Languages
Java, Python, SQL, JavaScript, NodeJs, Go/Golang, C/C++

Tools
Linux, Ansible, Jenkins, Docker, Ghidra, Burp Suite