Michael Rodrigues

mrodrig.github.io
rodrigues.mi@northeastern.edu

EDUCATION

NORTHEASTERN UNIVERSITY, Boston, MA   September 2016 – May 2018
Khoury College of Computer Sciences
Master of Science in Information Assurance and Cybersecurity   **GPA: 4.00 / 4.00**
National Science Foundation CyberCorps Scholarship for Service Award Recipient – 1 year

NORTHEASTERN UNIVERSITY, Boston, MA   September 2011 – May 2016
Khoury College of Computer Sciences
Bachelor of Science in Computer Science and Information Science (Dual Major)   **GPA: 3.77 / 4.00**
National Science Foundation CyberCorps Scholarship for Service Award Recipient – 2 years

COMPUTER KNOWLEDGE

Languages: JavaScript/TypeScript (Node, Vue), Python3, HTML, Swift, Java, C, Bash/Zsh, Kotlin, Golang
Systems: macOS, Windows, Linux (Ubuntu, Kali, RHEL), iOS, Android
Databases: MongoDB, MySQL, MS SQL, Oracle, Elasticsearch, BigQuery, Firestore
Applications: Docker, VSCode, Xcode, Git, CI/CD (GitHub, Gitlab, Jenkins, Bitbucket/Bamboo), Microsoft Teams, Zoom, WebEx, Google Meet, Slack, Mural
Platforms: Google Cloud, Firebase, Microsoft Azure, Amazon Web Services , Digital Ocean

EXPERIENCE

Lead Software Engineer and Architect   04/2023 – Present
Lead Mobile Architect & Web Applications Developer   07/2020 – 04/2023
Senior Web Applications Developer   06/2018 – 07/2020
The MITRE Corporation, Bedford, MA   **Active DOD Secret Clearance**

- Championed a mobile app backend migration project which shifted towards a secure and scalable cloud-first solution while reducing complexity and enabling new capabilities
- Co-architected a new global platform supporting multi-cloud deployments for internal development teams to deliver content, applications, and capabilities to support MITRE's international expansion
- Developed impactful new features and frameworks for the iOS and Android versions of MITRE@Work, MITRE's most commonly used corporate mobile app, while independently learning Swift for iOS
- Orchestrated mobile application metrics reporting and expanded script modules for improved analysis
- Pioneered new automations to facilitate and expedite mobile application development across MITRE
- Transformed our application CI/CD pipelines to leverage virtual machines for scalability and availability
- Maintained and enhanced existing MEAN stack and Vue-based web applications
- Led development effort for Elasticsearch data loading processes for an application re-design and re-architected the project to improve maintainability, efficiency, and to meet the project needs
- Identified and aided in the implementation of technical controls to improve the cybersecurity posture of new and existing applications and features
- Mentored multiple co-ops and summer interns through a variety of different development projects
- Headed the Northeastern Co-op hiring process for the department through to the hiring decision
- Earned 25 corporate awards for technical leadership, development contributions, and mentorship

Full Stack Web Applications Developer Co-op   05/2017 – 07/2017
The MITRE Corporation, Bedford, MA   06/2016 – 08/2016
                                                         01/2015 – 06/2015
                                                         01/2014 – 06/2014

- Contributed to the development of a new organization web application used by all of MITRE and was the point of contact for the application's cutover
- Developed a team dashboard application using web sockets which periodically checks the status of our applications and alerts team members of any identified issues
- Consulted on organizational web application penetration testing and approaches to automated application security testing
- Led the development and requirements elicitation for two new web applications: an external wireless network passcode service and RSS feed management portal
- Automated the reporting processes for MITRE@Work mobile application usage via a Python script
- Developed a NodeJS campaign service to recommend skill tags to employees using the MEAN stack
- Maintained, enhanced, and rewrote existing applications to abstract the codebase, increase efficiency, and convert them to use updated libraries such as AngularJS
- Led daily standup meetings for team of six to nine engineers
- Earned two corporate awards for technical innovations and explorations of modern technologies

Symmetrix Systems Integration Engineer Co-op   01/2013 – 08/2013
EMC Corporation, Franklin, MA

- Developed several websites, including a drive firmware repository website which is used internationally
- Rewrote various system and test scripts that were previously outdated, eliminating up to 500 lines of unnecessary code in one script while still adding new features
- Initiated and implemented an innovative approach to how tests were started, monitored, and conducted to increase efficiency and aid in system test automation
- Created and maintained a drive error logging MongoDB database for all 21 systems in the lab using an intricate Python error collection script and Symmetrix Fiber Channel API

Naval Research Enterprise Intern   05/2012 – 07/2012
Science and Engineering Apprenticeship Intern   06/2011 – 08/2011
Naval Undersea Warfare Center, Newport, RI   **DOD Secret Clearance**

- Developed and updated GUI program that sends and receives commands via network interfaces
- Supervised technical testing performed by contractors
- Designed various functions for a PIC32 Processor enabling data transfer (Ethernet & USB)

PROJECTS

SignatureLimoCompany.com - Solution Architect/Developer, Security Advisor   3/2014 - 2/2022

Open-Source Node modules on NPM:	GitHub Stars	Monthly Downloads	Date Launched
json-2-csv	343	560,000	4/2014
tag-cloud	7	250	1/2015
doc-path	3	540,000	4/2015
htpasswd-mgr	2	40	10/2018
deeks	6	530,000	11/2018
@mrodrig/json-2-csv-cli	4	250	12/2019

Additional independent projects available on GitHub: mrodrig

INTERESTS

Photography, Cars, Programming (open source, learning new languages), Cybersecurity & digital forensics, Network security, PC hardware and overclocking