# Michael Rodrigues

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#### **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

- 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 rearchitected 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

The MITRE Corporation, Bedford, MA

05/2017 - 07/2017 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 Science and Engineering Apprenticeship Intern

05/2012 – 07/2012

Naval Undersea Warfare Center, Newport, RI

06/2011 – 08/2011

**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:  • json-2-csv	GitHub Stars 343	Monthly Downloads 560,000	Date Launched 4/2014
tag-cloud	7	250	1/2015
<ul><li>doc-path</li></ul>	3	540,000	4/2015
<ul> <li>htpasswd-mgr</li> </ul>	2	40	10/2018
• deeks	6	530,000	11/2018
<ul> <li>@mrodrig/json-2-csv-cli</li> </ul>	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