

# Michael Rodrigues

<https://mrodrig.github.io>

## 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 (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  
Applications: Docker, VSCode, Xcode, Git, CI/CD (GitHub, Gitlab, Jenkins, Atlassian products), Microsoft Teams, Zoom, WebEx, Google Meet, Slack, Mural  
Platforms: Google Cloud Platform (GCP), Firebase, Kinvey, Amazon Web Services (AWS), Digital Ocean

## EXPERIENCE

**Lead Mobile Architect & Web Applications Developer**

June 2018 - Present

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
- 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, expanded scripted 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
- 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
- Maintained and enhanced existing MEAN stack and Vue-based web applications
- 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 22 corporate awards for technical leadership, development contributions, and mentorship

**Full Stack Web Applications Developer Co-op**

January 2014 – June 2014

The MITRE Corporation, Bedford, MA

January 2015 – June 2015

June 2016 – August 2016

May 2017 – July 2017

- 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 new NodeJS campaign service to recommend skill tags to employees using the MEAN stack
- Maintained, enhanced, and rewrote existing applications to abstract the code base, 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 new technologies

**Symmetrix Systems Integration Engineer Co-op**  
 EMC Corporation, Franklin, MA

January 2013 – August 2013

- Developed four websites, including a firmware repository website which is used internationally to manage drive firmware
- 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 a new 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**  
 Naval Undersea Warfare Center, Newport, RI

May 2012 – July 2012  
 June 2011 – August 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 - Present	
Open-Source Node modules on NPM:	Github Stars	Monthly Downloads	Date Launched
• json-2-csv	255	220,000	4/2014
• tag-cloud	6	150	1/2015
• memo-cache	3	20	3/2015
• doc-path	1	230,000	4/2015
• updep	5	20	11/2015
• objecdiff	1	20	6/2016
• httpasswd-mgr	2	20	10/2018
• deeks	3	220,000	11/2018
• @mrodrig/json-2-csv-cli	2	220	12/2019
• vue-scandit	0	100	8/2020

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