

## EDUCATION

North Carolina State University | Raleigh, North Carolina May 2020

*Master of Computer Science | Specialization Cyber Security | CGPA : 3.733*

*Relevant courses — Network Security, Algorithms, Privacy, Cryptography, Software Security, Operating systems*

Mukesh Patel School of Technology Management and Engineering | Mumbai, India June 2018

*Bachelor of Technology in Information Technology | GPA : 3.58 (3rd in department)*

*Relevant courses — Human Computer Interaction, Cloud Computing, Database Management System*

## SKILLS

- Programming Languages — **Python, Swift**, Java Script, Java, C++
- Tools & Platforms — Xcode, Splunk (**Certified**), FireEye, Ansible, Crowd Strike, Wireshark, Kali Linux, Anaconda, Jupyter, Grafana, Influx DB, **AWS Certified Solutions Architect**, pending certification — **CompTIA Security+**
- Good communication and presentation skills, have carried out several public presentations and talks

## EXPERIENCE

Cheniere Energy Inc. | Technology Security Intern | Houston, Texas May 2019 - August 2019

- Improved Splunk queries to generate **50% more** efficient monthly metric reports
- Automated report generation to make monthly operations more efficient and reduce time by **50%**
- Analyzed daily network activity to hunt suspicious activity and lateral movements
- Created a vulnerability report for the internal network, to help improve the infrastructure
- Performed 5 scoped and open-ended **vulnerability assessments** on internal and external facing systems

## PROJECTS

OpenMRS Security | *Java Script, Python, Fortify, Coverity, Defensics, Seeker, and SonarCube* | Software Security

- Performed 3 types of security testing, including fuzz testing at each of these levels: **white box, grey box, and black box/penetration testing**
- Evaluated OpenMRS for vulnerabilities and generated a report on the evaluation and its results
- **Assessed the security risk** of a system under development and deliberated **secure coding techniques** to be in line with OWASP Top-10

DevOps Pipeline | *Java Script, Python, AWS, Jenkins, Kubernetes* | [https://youtu.be/zY5L-M\\_cXS](https://youtu.be/zY5L-M_cXS) (3 min)

- Automated configuration management and build on **AWS** using **Ansible** and **Jenkins** to install dependencies
- Tested configuration using Mocha and PM2 and created Github actions to automate testing
- Used techniques like Fuzzing, Test case prioritization and static analysis to improve deployment
- Automated the deployment of fault tolerant infrastructure on AWS using Kubernetes and Docker
- Used Prometheus and Grafana for monitoring and analysis of the deployed nodes in 3 regions

Internet of Things Project | *C++, Swift, MQTT* | 1<sup>st</sup> Prize in IT department

- Designed and developed **12 IoT modules** with an iOS application and IoT analytics and visualization
- Programmed and modeled modules using Xcode, Eagle (PCB design), RaspberryPi, ESP8266, Grafana, InfluxDB, MQTT.fx, and Microsoft Project

Hackathons | *Swift, NodeJS, Python* | HackNC, CalHacks

- *HackNC* — An ML model, trained over 250,000 recipes, to predict the food someone likes based on mood
- *CalHacks 6.0* — A Augmented Reality iOS App for customizing filters

## CERTIFICATION

Splunk Certification

- Splunk Certified Core User
- Splunk Core Certified Power User

AWS Certification

- Certified Solutions Architect

## EXTRACURRICULAR

- Video and VFX editor, comfortable with FCP X and adobe creative suite; worked as a freelancer for 6 years
- Organization and volunteering in blood donation camps and other volunteering activities.