MICHAEL PENA

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EDUCATION

2016 - 2020	**Bachelor of Science in Software Engineering**	**University of Texas at Arlington (UTA)**
	BS in Software Engineering (BSSE), Bachelor of Science	
	Cum Laude	

EXPERIENCE

11/2019 – 5/2021   **Systems Engineering Intern**   **Elbit Systems of America**

• Wrote modern, performant, and robust code for a diverse array of internal projects.

• Collaborated and communicated with teams of engineers on a daily basis to create internal tools that automate and streamline processes within the engineering department.

• Developed an internal full stack web application using React, Node.js, and MySQL.

• Worked with a variety of different languages, frameworks, and databases such as JavaScript, PHP, Python, HTML, CSS, Node.js, MySQL, Apache, etc.

• Performed minor penetration testing using Kali Linux and various penetration testing tools such as Burp Suite, Metasploit, Nmap, Nessus, etc.

• Hardened Linux servers/embedded devices using Ansible and ran Nessus scans in a production environment to find vulnerabilities for patching and remediation.

SKILLS

Languages
Python, Java, JavaScript (ES6), HTML, CSS, PHP, Bash, C++, C

Libraries & Frameworks
Node.js, jQuery, Ajax, React, Redux, Express, Bootstrap, Material UI, Flask, Spring Framework

Tools & Platforms
AWS, Heroku, Docker, Kubernetes, Git, GitLab, JUnit, Eclipse, IntelliJ, VS Code, Gradle, Maven, Firebase, Postman, Selenium

Databases
MySQL, MariaDB, SQLite, MongoDB

PROJECTS

UTA Android Parking App
An Android application that assists student parking by using a check-in system. Implemented Firebase to store the user data and display metrics on student parking in order to ease traffic and provide students with parking alternatives on campus.

Top 10 Movies Web Application
A full stack Python CRUD web application that uses the Movie Database API and allows a user to create a personal top 10 movies list. User's of the application can search, add, rank, and review movies. The site displays each movie's poster, year released, and other meta data.

Twitter ISP Bot
A Selenium WebDriver bot written in Python. The program checks a user's download speeds, logs into twitter, and sends a tweet directed at the user's internet service provider if they're lower than advertised. The bot runs on a loop as a Linux cronjob.