

# Nikolas Pechie

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## Relevant Work Experience:

### Software Engineering Co-op

#### Integrity Security Services - Boston, MA

December 2019 - August 2020

- Restructured credential management across all **Node.js** services to adhere to AWS security best practices.
- Utilized **Jira** to track monthly sprints in an **Agile** software development environment.
- Simplified existing **Node.js** microservices by implementing serverless functions (**AWS Lambda**) to handle periodic tasks.
- Implemented **AWS Simple Queue Service** to handle messages from multiple FIFO queues.
- Developed a new **REST API** service to assist customers in provisioning V2X certificates per the IEEE 1609.2 standard.

### Robotics Software Development Co-op

#### QinetiQ North America - Waltham, MA

January - June 2019

- Implemented government cybersecurity standards into a **Linux** operating system.
- Translated gravity force measurements from three sensors on an autonomous robot into radial coordinates to be displayed in a 3D model, using **C++**.
- Integrated **TeamCity** builds with **Coverity** and automated a report generation process.
- Created **Python** scripts to add different header statements to 5000+ files within a project dependent on the file type.

### Software Development Co-op

#### Bose Corporation - Framingham, MA

January - August 2018

- Developed and continuously updated an **iOS** application using **Swift** to test the different features and firmware versions of a product.
- Integrated iOS Snapshot Test Case into our project, created unit tests to ensure that accidental UI changes were automatically detected.

## Relevant Projects:

- **Twitter Bot**: Created a Twitter bot using **Node.js** that automatically 'likes' tweets it is mentioned in, and responds with a random message. Deployed this app to **Heroku** in order to run constantly.
- **Plant Growth Pod**: Developed a mobile application using **React Native** and a **REST API** using **AWS** to accompany a self sufficient plant growing pod.
- **Personal Website**: Designed and developed a personal website for myself using **Javascript**, **CSS**, **HTML**, and **React**. Deployed using Google Firebase Hosting.

## Skills: (Highest-Lowest Proficiency)

**Operating Systems:** Linux, Mac OS, Windows, iOS

**Languages:** Javascript (Node.js, React, React Native), Java, C++, Python, C#, Swift

**Other:** AWS, Git, Jira, Agile Development, REST, QA Testing, Jenkins, Google Firebase Hosting, Heroku, SQL, TeamCity, Postman, Coverity

## Education:

Northeastern University, Boston, MA

May 2021

Candidate for Bachelor of Science in Computer Engineering, Minor in Computer Science

Clubs: Institute of Electrical and Electronics Engineers (IEEE), Hellenic Society