Michelle Tan

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Education

Watson School of Engineering at Binghamton University

Bachelor's Degree in Computer Science, 3.47/4.0 *Expected 2020*

Skills

Languages: C++, Javascript, C, Python, Java

Software: AWS, Git, VMware, Vim, UNIX, Kali Linux, Pfsense, LaTEX, Autodesk Inventor

Experience

Capital One **Mcclean,VA**

Software Development Intern *Summer 2019*

- Developed two API endpoints using AWS Lambdas to store and retrieve JSON objects from a DynamoDB table
- Created multiple scripts to automate the creation of AWS resources in Cloudformation
- Integrated two API endpoints into the team's deployment pipeline and deployed endpoints to QA environment

Assured Information Security/Air Force Research Lab **Rome,NY**

Cyber Security Intern *Summer 2018*

- Contributed to an Air Force research project by creating a series of testing environments in multiple virtual machines
- Created and maintained sub-network services for more than 30 other interns
- Assisted in victory of simulated cyber war by mapping out a given network and denying service to enemy machines

Pipe Dream Newspaper **Binghamton,NY**

Newsroom Technology Intern *Spring 2017–Present*

- Resolve IT issues for an office of more than 30 employees by creating and managing user accounts
- Maintain the website for Pipe Dream by updating information and creating feature pages
- Manage both the website and the office servers to maintain server availability by monitoring server usage and creating multiple server back ups.

Projects

Slack Report App **Capital One**

Developer *Summer 2019*

- Developed Slack application that sends a report of relevant Github activity to a Slack channel
- Used Octokit SDK and Slack API SDK to help access the Slack and Github APIs
- Documented the process to install and use application

Ray Tracing Engine **Binghamton University**

Developer *Fall 2017*

- Collaborated in a group of two to create a ray tracer with C++ and OpenGl
- Developed algorithm to realistically render reflective polygons and spheres

Splunk Python Parser **ITS Security**

Developer *Spring 2018*

- Wrote Python script to automate DMCA complaints by parsing provided metadata inputs into a Splunk query
- Programmed using Selenium web driver and Minidom XML Python modules

Extracurricular Activities

Computers Robotics and Engineering Learning Community **Binghamton,NY**

President *Fall 2019–Present*

- Organize multiple alumni events with 60 attendees
- Collaborate with Dickinson Town Council to create engineering events for the Dickinson community
- Prepare talks about programming and engineering for community events