Michelle Tan

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Education

Watson School of Engineering at Binghamton University

Bachelor's Degree in Computer Science, 3.5/4.0   *Expected 2020*

Skills

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

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

Experience

AIS/Air Force Research Lab   **Rome**

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**

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.

Binghamton University   **Binghamton**

Residential Computer Consultant   *Fall 2017–Present*

○ Resolve technical problems for residence hall of 100+ students
○ Maintain university technology by using knowledge of networking, operating systems, and cyber security practices
○ Communicate with the Information Technology staff to assist in resolving wide spread network issues

Projects

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

Pipeline Work Flow   **Pipe Dream Newspaper**

Technology Consultant   *Spring 2017*

○ Assisted in the redesign planning of Pipe Dream newspaper's work flow website
○ Advised design team on how the project would be developed and the pros and cons on creating custom software
○ Recommended programming languages and frameworks to use for rebuilding the website

Extracurricular Activities

CoRE   **Binghamton**

Vice President   *Fall 2018–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

UPE Computer Science Honor Society   **Binghamton**

Event Coordinator   *Fall 2018–Present*

○ Organize talks about current university research for a community of over 400 students
○ Assist UPE in the creation and representation of computer science clubs on campus