EDUCATION ­

Stockton University | Galloway, New Jersey  *2017 - 2021*

**Bachelor of Science, Computer Science, GPA: 3.xx**

WORK EXPERIENCE ­

**Contract Software Developer, Applied Research Associates, EHT, NJ** *Nov. 2020 – Present*

* Implemented FEAFAA batch mode, a modified Visual Basic desktop application designed to calculate finite element analyses on 75,000 plus xml files, the output files were then used to develop machine learning models
* Developed batch file renaming processes by creating a Visual Basic CLI program that accurately renames each output file with its related input/job file name
* Handled bug fixes, performance enhancements and usability improvements that were suggested by software testers and civil engineer end users

**Junior System Administrator, Applied Research Associates, EHT, NJ** *Nov. 2019 - Present*

* Coordinated hardware as well as software purchasing while keeping purchase utility high and company expenses within or below the allocated budget
* Solved technical and logistical problems such as authentication issues, access permission and networking problems using practical troubleshooting methodologies
* Helped implement a multi-factor authentication system for the ARA corporate network by configuring 50 plus RSA hardware tokens and software clients
* Maintained onsite and offsite file server backups in preparation for emergency situations such as ransomware, theft, fires and any other threats to data integrity

TECHNICAL SKILLS ­

* **Programming Languages:** Java, Python, JavaScript ES6, PHP 7, Visual Basic
* **Application Frameworks:** Java Spring, Python Django ORM, Python Flask, React js, Bootstrap CSS
* **Database Administration:**  MySQL, Oracle SQL, Microsoft SQL Server, SQLite3
* **System Administration:** Active Directory, PowerShell, virtualization, various Linux distributions, off site backups
* **Additional Skills:** Agile methodologies, web development using HTML5/CSS3, Microsoft Office: Word, Excel, PowerPoint, MS Project, Gimp (photoshop equivalent)

PORTFOLIO PROJECTS ­

**Swoop – An Open-Source Project Management System** *Mar 2020 – Sept 2020*

* Architected the entire full stack website which included the database development, backend/server-side programming, frontend development and Debian Linux web server administration
* Built a task assignment feature that sends automated email reminders to the project members in order to help users stay on schedule
* Developed a content management system that allows users to create articles about their project(s) using markdown syntax and file uploads
* GitHub Repository: <https://github.com/colinsather/Swoop> || Live Website: <https://swoop.team>

**Assurance Wireless – Senior Software Engineering Project** *Jan 2020 – May 2020*

* Collaborated with fellow students to recreate Assurance Wireless’s website with the goal of helping under-privileged families obtain free or low-cost cellular services and devices
* Implemented 3 new features including a real-time chat room, an improved application form and a secure admin console for employees to manage applications for government assistance programs
* GitHub Repository: <https://github.com/colinsather/Assurance_Wireless>

**CKI University – Charity Club Portal System** Sept *2019 – Dec 2019*

* A database management application written in Python using Django ORM framework for Circle K International, one of the largest collegiate charity organizations in the world
* This web application allows club members to keep track of the amount of service hours and dollars they have contributed to various charities
* GitHub Repository: <https://github.com/colinsather/CKI_Portal_System>