

# Colin Sather

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## EDUCATION

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### Bachelor of Science, Computer Science

Stockton University, School of Business | Galloway, New Jersey

### Associate of Science Business Administration

Raritan Valley Community College | Bridgewater, New Jersey

## EXPERIENCE

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### Contract Software Developer, Applied Research Associates | FAA

*Oct. 2020 – Present*

- Implemented FEAFAA Batch Controller, a modified desktop application designed to calculate 75,000+ finite element analyses via XML input files
- Ensured the FEAFAA Batch Controller software delivered 11 terabytes of machine learning training data for a Federal Aviation Administration contract
- Developed bulk file processing scripts using Python and PowerShell to assist with various projects

### Junior Systems Administrator, Applied Research Associates

*Nov. 2019 - Present*

- Solved technical problems such as authentication issues, access permission errors and networking problems for New Jersey and Maryland ARA offices
- Configured 50 plus RSA hardware tokens and software clients to assist with multi-factor authentication for ARA's enterprise network
- Coordinated hardware and software purchasing for NJ and MD offices within their allocated budgets
- Maintained offsite backups of file servers and virtual machines in preparation for emergency situations

### Lifeline Assistant, Stockton University Senior Capstone Project

*Jan. – May 2020*

- Collaborated with a team to design, build, and present an improved web application for Assurance Wireless
- Accepted and implemented feedback suggested by one of Assurance Wireless's technical leads
- Managed deployments on to the team's AWS Red Hat EC2 server and ensured our database and web services were demo ready

## SKILLS

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- **Programming:** Python, Java, PHP, JavaScript, Visual Basic
- **Tools:** MYSQL, Git/GitHub, AWS, Linode Cloud VPS, Apache Web Server, Django ORM, React JS
- **Infrastructure:** Active Directory, computer networking, PowerShell scripting, Linux shell scripting, virtualization, Debian, and CentOS Linux
- **Additional Skills:** Agile methodologies, Microsoft Office (including MS Project)

## TECHNICAL PROJECTS

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### SCTMS – Open-Source Content & Task Management System

*Mar 2020 – Sept 2020*

- Developed a full stack web application including database development, server-side programming, frontend development and Debian Linux web server administration
- Utilized python email libraries to send automated email reminders to members of a given project to help team members stay on schedule ([Live website: https://swoop.team](https://swoop.team))

### IoT Trivia Game – Personal Project

*April 2021*

- Collaborated with a small team of developers to create a unique raspberry pi embedded system, the device delivers a mild electric shock to users who fail to answer trivia questions correctly
- Designed the hardware and integrated python server-side scripts to control API data, GPIO pins and data intensive business logic