563-549-3589   **SAIMUN SHAHEE**   saimun.shahee@gmail.com

EDUCATION

University Park, PA   **Pennsylvania State University**   **August 2016 – May 2020**

- Bachelor of Science in Computational Statistics with Minor in Mathematics
- **Undergraduate Coursework:** Data Structures and Algorithms, Artificial Intelligence, Introduction to Probability Theory, Introduction to Mathematical Statistics, Applied Time Series, Applied Regression Analysis

Skills

- **Programming Languages**: Java, Python, R, JavaScript, Scala, Ruby, C++, C
- **Services**: Jira, Jenkins, Docker, Elasticsearch, Kibana, S3, CloudWatch, CloudFormation

EXPERIENCE

Software Engineer   **Amazon**   **July 2020 to Present**

AWS Service Catalog, June 2021 to Present

- Helped build testing infrastructure for testing create, describe, search, and update API's for Terraform product types in our service
- Organized project to fix integration tests in various pipelines by removing flaky tests and writing new tests for 44 Service Catalog APIs

FireTV Personalization, July 2020 to June 2021

- Added metrics, along with their dashboards, for a content personalization training job by utilizing AWS services such as CloudWatch and SageMaker
- Created batch API for a key operation in our team's primary service (FireTV content feed retrieving backend service)
- Integrated our team's logs in an internal web application which allows engineers to access logs using SQL-like queries

Technology Intern   **PNC Financial Services**   **May 2019 to August 2019**

DevOps, Jira Team

- Helped create a backend REST API using Python and Flask to automate migration of user stories, epics, and attachments from Collab's VersionOne to Atlassian's Jira
- Helped transfer around 5500 users to Jira and saved the company at least $120,000 on software costs
- Contributed to open source Python library for the Jira REST API
- Created a chatbot to schedule for migrations through Mattermost messaging channels

Software Engineering Intern   **John Deere**   **May 2018 to August 2018**

Seeding Group

- Implemented a solution to upload software revisions to microcontrollers on the seeder product line
- Worked with CANalyzer to obtain memory readings from microcontrollers to see where the issues occurred when uploading new software
- Wrote scripts to analyze and parse software payload configurations files, which reduced the time to debug memory errors by 50%

PROJECTS

- **Increasingly Verbose Python**: Created a program that used color clustering methods to generate worse quality versions of an image input (based on a meme format).
- **Rocks:** Created a small game similar to Asteroids. Includes various features such as powerups, life meter, and collision graphics
- **RoboPacman:** Worked with the PSU Robotics team in programming an RC car to complete a Pacman game. Implemented code on a Raspberry Pi Zero. Utilized pathfinding methods such as breadth first search and Dijkstra's algorithm to improve the robots autonomy