

# Derek Maciel

Greater Philadelphia Area

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## Education

### Rutgers University

New Brunswick, NJ

B.S. IN COMPUTER SCIENCE

May 2019

- Deans List Fall 2018 and Spring 2019

## Experience

### Capital One

Wilmington, DE

SITE RELIABILITY ENGINEER

Aug. 2019 — Present

- Developed an AWS Cloudwatch log exporting application in Node.js using AWS Lambda and AWS Kinesis, providing development teams automatic Lambda log exporting to Elasticsearch
- Presented and facilitated a workshop demonstrating high availability architecture design at an internal conference
- Review, document, and provide feedback on development teams' application architectures, CI/CD pipelines, and monitoring, alerting, and infrastructure scaling policies

### Capital One

Wilmington, DE

SOFTWARE ENGINEERING INTERN

Jun. 2018 — Aug. 2018

- Designed and implemented a Kibana plugin web app using React and Node.js to provide easy and auditable training for a machine learning model
- Implemented monitoring and alerting using NewRelic for a call center recording transcription machine learning model which reduced the model's error rate from 10% to less than 0.01%, reduced cloud resource spending by over \$2000 per year, and reduced business metric lag from hours to minutes

### SIG: Susquehanna International Group

Philadelphia, PA

SOFTWARE DEVELOPMENT INTERN

Jun. 2017 — Aug. 2017

- Designed and implemented in C# a financial management system that saves 10 hours per month for each trader (a cost savings of over \$2500 per month) and improves trading accuracy
- Implemented scrapers and parsers to periodically gather data from various markets to import into the application

### Open System Solutions at Rutgers University

New Brunswick, NJ

STUDENT PROGRAMMER

Jan. 2016 — May 2017

- Designed and implemented a RESTful API in Python using Flask and MongoDB to replace a legacy application
- Fixed critical bugs and added CSV exporting to a employee hours-tracking web app in Python using Flask and MySQL
- Developed a command-line frontend to rsync in Python to improve the Rutgers University Linux Distribution Mirrors

## Skills

**Languages** Python, JavaScript, C, C#, Java

**Tools/Frameworks** Node.js, AWS, NewRelic, DataDog, Jest, Cucumber, Terraform, CloudFormation, Flask, React

## Projects

### Salt

Open Source Contributor

GITHUB.COM/SALTSTACK/SALT

- Reported and fixed a High Priority bug with RPM package installation (Pull Request #35119).