

# Ahad Sagheer

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## Education

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**Purdue University** | 3.53/4.00 GPA, West Lafayette, IN

Fall 2015 – Fall 2018

- B.S. in Computer Science (Tracks: Security & Software Engineering)
- Certificate in Entrepreneurship

**AWS Solutions Architect Certification**

Fall 2019

## Experience

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**Senior Associate Software Engineer | Capital One, Washington, D.C.**

Spring 2020 – Present

Scala, Python, Kafka, Spark, AWS (Kinesis, EMR, Lambda, CloudFormation, S3), Databricks, Splunk

- Implemented, designed, and improved diverse backend projects which capture and handle metrics from all 2,000+ Capital One ATMs
- Lowered incident response time from 2-3 days to just 30 minutes by creating an AWS Lambda which retrieves data from AWS Kinesis, parses metrics, and forwards it to Splunk and Datadog (fully implemented core logic, unit/regression tests, and CI/CD pipeline)
- Architected and designed new streaming data platform to replace old batch-based data processing pipeline

**Associate Software Engineer | Capital One, Washington, D.C.**

Spring 2019 – Spring 2020

Python, Java, Scala, AWS EMR, S3, Docker, Jenkins, Spark

- Created a big data library built with Scala and Python using Spark/PySpark to allow developers to integrate with Capital One's data ecosystem and accelerate the development cycle of Spark jobs hosted on AWS EMR
- Enhanced and maintained an inner-sourced big data framework that enables users to easily ingest, process, and act on batch and real-time streaming data using Spark and Scala
- Developed CI/CD pipelines allowing users to deploy Spark Applications hosted on AWS in an automated fashion.

**Software Engineer Intern | Capital One, Washington, D.C.**

Summer 2018

Python, Django, SQL

- Created REST APIs and database schemas on a webapp which manages the retrieval of sensitive external files and transfers them to internal Capital One teams

**Software Engineer Intern | Harris Corporation, Melbourne, FL**

Summer 2016 & Summer 2017

C++, Wireshark

- Developed software which prevents attackers from sniffing network packets using time-based scrambling

**CS 193 Instructor | Purdue University, West Lafayette, IN**

Spring 2017 – Fall 2018

- Taught a CS class with 400 students and was responsible for hiring TA's, creating labs, lecturing, and grading

**Help Room Manager | Purdue University, West Lafayette, IN**

Spring 2016 – Fall 2018

- Run a CS Help Room where other tutors and I teach Java, C, C++, and Python

## Projects & Volunteer Work

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**StayNeighbor.com** | JavaScript, MongoDB Cloud

- Backend engineer on a website which acts as a logistics tool for areas impacted by COVID-19

**CodePath Mentor** | Python

- Aim to increase diversity in tech by teaching data structures/algorithms and mentoring underrepresented/underserved college students

**BandMap** | Django, Python

- Backend engineer on a website like LinkedIn but specifically for musicians

**Swollmate** | Android

- An app which connects users with similar workout interests to find a workout buddy at Purdue

## Technical Skills

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### Languages

Scala, Python, Java, C/C++, SQL, JavaScript

### Tools/Frameworks

AWS, Spark/PySpark, Kafka, Docker, Jenkins, Django, Firebase, Git, Bash

### Operating Systems

Linux, Mac, Windows