

Ahad Sagheer

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Education

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

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

Spring 2020 – Present

Scala, Python, Kafka, Spark, AWS Kinesis, EMR, Lambda, CloudFormation, S3

- 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

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

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