Anish **Thakker**

Software Engineer · Developer · Student

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Education

University of Maryland, College Park — *College Park, Maryland*

Bachelor's of Science in Computer Science, Minor in Business Analytics — *Aug. 2018 - May 2021*

- GPA: 3.84/4.00
- Recipient of the Presidential Scholarship.

Skills

Languages	Java | Python | C | R | Scala | OCaml | C# | Swift | SQL | JavaScript | HTML | CSS
Tools	AWS | Docker | Ansible | Shiny | Neo4J | Git
Notable Coursework	Data Structures | Algorithms | Introduction to Data Science | Discrete Mathematics | Introduction to Computer Systems

Experience

Capital One — *McLean, Virginia*

Software Engineering Intern — *Jun. 2020 - Aug. 2020*

- Developed APIs in Scala to eliminate pain points for data producers when streaming data into a Snowflake data warehouse and an S3 data lake.
- Increased schema support from data sinks to 100% after deploying the APIs to production.
- Created stored procedures in JavaScript and SQL on a Snowflake data warehouse to automate data provisioning processes, saving support teams approximately 5-10 hours a week.

Leidos — *Gaithersburg, Maryland*

Software Engineering Intern — *May 2019 - Nov. 2019*

- Worked on the Data to Intelligence Team in an Agile Development environment to produce shippable results in efficient two week sprints.
- Developed Jupyter Notebooks for email data analysis and spoofing detection using Python and Spark. Demonstrated this project, which is currently being utilized by Cyber Analysts at Leidos on a daily basis.
- Engineered queries to perform graph analysis of email data relationships using Neo4j. Learned Neo4j during the process and presented my work to Leidos leadership.
- Learned Docker and Ansible in order to successfully deploy servers and containers on an AWS cloud environment.

University of Maryland, College Park — *College Park, Maryland*

Teaching Assistant — *Aug. 2019 - Present*

- Led a discussion of 40 students, graded projects and exams, held office hours to reinforce concepts taught in class, and assisted students with projects.
- CMSC 131 (Object Oriented Programming I): Fall '19 and Fall '20.
- CMSC 132 (Object Oriented Programming II - Intro to Data Structures): Spring '20.
- BMGT 360 (Strategic Management of Human Capital): Fall '20.

Projects

College Football Recruiting War (cfb.anishthakker.com)

Personal Project — *May 2020*

- Developed a web application that provides data on recruiting battles amongst college football programs.
- Deployed on AWS using an EC2 instance at cfb.anishthakker.com
- Back end data operations done using R and front end written using Shiny.
- Using data from 2002-2020 from 247 Sports, this web app will allow the user to choose a state, position, star rating, and a time period. The web app will then tell the user the top 3 recruiting programs within that category, along with their best recruit from that category.

SOLELINKS Twitter Bot

Personal Project — *July 2019*

- Developed a Python bot for the SOLELINKS twitter page.
- Created for the purpose of helping sneaker fans (such as myself) get a jump on sneaker deals when they are announced.
- The bot sends a text message to the user's mobile device every time SOLELINKS tweets about a deal that involves a particular set of shoe brands specified by the user.
- Utilized the Twitter API for twitter monitoring and the Twilio API for SMS messaging alerts.