(864) 328-7441 Richmond, VA mrsumme@clemson.edu

Michael Summers

Software Engineer

michaelsummers.dev github.com/mrsumme linkedin.com/in/michaelrsummers

SKILLS

Python, Javascript/Typescript, SQL, C Languages

Frameworks/Libraries Spark, Dask, Express, Angular, Flask, Pandas, NumPy, Pyarrow

Certifications AWS Solutions Architect - Associate, Pt. 107 sUAS Pilot

TECHNICAL EXPERIENCE

Senior Associate Software Engineer

Feb 2022 — Present

Richmond, VA

Capital One - Center for Machine Learning

- Contributed to an internal ML model monitoring, interpretability, and explainability package in Python and Dask
- Built a team portfolio management template in React for adoption across our line of business
- Gained technical knowledge around key ML interpretability and explainability tools including ALE, SHAP, GAM, VATS, etc.

Associate Software Engineer (Entry Level)

Feb 2021 — Feb 2022

Richmond, VA

Capital One - Finance Tech

- Built and maintained big financial data ETL processes in PySpark and SparkSQL
- Early engineer on team implementing a big data enrichment engine in PySpark from scratch
- · On-boarded enrichment logic to enrichment engine through close collaboration with accounting/finance professionals
- · Performed and maintained data modelling work for a NoSQL, single-table, fully-auditable enrichment management database using DynamoDB
- Frequently contributed back to internal platforms for data discovery, testing, and management

CODA Associate Aug 2020 — Feb 2021 Capital One Richmond, VA

Engaged in a rigorous 6-month curriculum in software engineering and web development concepts and practice

 Built five unique, dynamic web applications using NodeJS/Express, Flask, Angular, React, in addition to a variety of other technologies

Geospatial Intern May 2018 — Dec 2018

Clemson Center for Geospatial Technologies

Clemson, SC

Clemson, SC

- Founded and implemented the Drones for Good student drone rental program
- Developed comprehensive training curriculum for student drone pilots
- Managed portfolio of collaborative GIS projects, including an ADA accessibility guide to campus

Undergraduate Researcher in the Lab of Dr. Alex Feltus

Aug 2017 — May 2018

Trained in the use of high performance computing resources for applications to bioinformatics and genomics workflows

- Trained in workflows to produce and interpret gene co-expression networks from next-gen sequencing data
- Gained extensive experience navigating and parsing data from online biological databases

EDUCATION

Bachelor of Arts in Economics, Clemson University

2015 - 2019

Minor Biochemistry

Clemson University

PROJECTS

Dec 2021 — Present InfraRun

- Description: Integrates the Richmond, Virginia local 311 system with the Strava mobile app, allowing runners to seamlessly report broken pedestrian and cycling infrastructure and request improvements, all without leaving the Strava app.
- Tech: Strava API, AWS API Gateway, AWS Lambda, Selenium

FeedMore Virginia Feb 2022 - Present

· Description: Work with interdisciplinary team to develop high-precision predictive model for food insecurity across the Central Virginia region to inform food bank deliveries.

ACTIVITIES

Capital One ProBono Data Program
Founding Executive Team Member, CUhackit (Clemson's Student-Run Hackathon)
Founding Director, Clemson Drones for Good Initiative
Chair, Clemson IT Student Advisory Board

Jan 2022 — Present

Mar 2017 - Mar 2018 May 2018 - Dec 2018

Mar 2017 - Mar 2018