Maclay Teefey

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SUMMARY

Masters Computer Science student with 1.5 years of experience in full-stack development. Project experience focuses on data engineering and machine learning. Seeking full time position March 2026 in software development, data engineering, data analytics and machine learning.

EDUCATION

M.S. Computer Science (Big Data Systems) Graduating March 2026
Arizona State University, Tempe, AZ 3.68 GPA
Relevant Coursework: Data Processing At Scale, Data Mining, AI, Deep Learning in Visual Computing, and Data Visualization

B.S. Computer Science; Minor: Data Science August 2019 – May 2023
University of Virginia, Charlottesville, VA 3.51 GPA
Relevant Coursework: Programming and Data Representation, Algorithms, Machine Learning, Data Science Systems, Software Development Methods, Software Testing, HCI in Software Development, Intro to Cybersecurity

TECHNICAL SKILLS AND CERTIFICATIONS

Data Analysis and Statistics: SQL, R, Excel, Tableau, Apache Spark, and Scala
Programming: Python, TypeScript, Java, C++, C#, C, JavaScript, and React
Certifications: Amazon Web Services Cloud Practitioner – August 2022

PROFESSIONAL EXPERIENCE

Epic Systems, Verona, WI: Software Developer June 2023 – October 2024

- Coordinated a full-stack project displaying lookup records used translating flat files in Data Transformation activity (Typescript, React, Mumps, C#, & PowerPoint)
- Resolved over 50 critical user experience issues through careful analysis of legacy code (Typescript & React)
- Collaborated with a team of 15 developers to launch the Data Transformation Activity, the focus of the Data Aggregation team for over 3 years.

PROJECTS

Fall 2025
Analyzed sensor data from a glucose and insulin sensor to predict characteristics from unlabeled data:

- Predicted whether a patient ate a meal from glucose distribution features with 57% accuracy using RandomForestClassifier
- Created glucose amount clusters using DBSCAN and K-Means clustering with perfect accuracy and 100 SSE

Mental Health Coordinating Machine Learning Project Fall 2022
Led team of three to design and develop a machine learning model to predict mental health issues from social media posts:

- Extracted predictive features from >100K social media posts using natural language processing techniques including sentiment analysis, text statistics, and polarity scores (Python)
- Harnessed SVCs and CNNs to predict mental health issues in posts with 98% accuracy and precision

Geospatial Analysis Project Fall 2025
Implemented functions to process geospatial data from NoSQL and SQL databases using Apache Spark and UnQLite:

- Developed helper functions to provide businesses within a specified city and within a specified radius from a businesses NoSQL database (Python)
- Determined the top 50 most popular NYC taxi pickup locations in terms of count and the getis-ord statistic through analyzing a geospatial multiyear taxi SQL database (Apache Spark & Scala)

OTHER WORK EXPERIENCE

Erie Insurance, Richmond, Virginia: Claims II Intern May 2022 – August 2023

- Analyzed claims concluded by ERIE claims adjusters and learned broad overview of the insurance industry including underwriting