

Austin Berg

Vienna, Virginia | (703)-223-2950 | austinscottb63@gmail.com | linkedin.com/in/austin-s-berg/ | austinberg.com

SUMMARY

Third-year Computer Science and Applied Statistics student with a passion for Data Science, Data Analytics, Data Engineering, and Machine Learning. Open to roles in Software Engineering, Data Science, and Machine Learning.

EDUCATION

University of Virginia

Aug 2023 – May 2027

B.A. Computer Science, B.A. Applied Statistics; GPA: 3.52/4.0

- Coursework: Data Structures and Algorithms, Parallel Computing, Computer Systems and Organization, Discrete Math and Theory, Regression Analysis, Data Visualization and Management

PROFESSIONAL EXPERIENCE

GreekCore

AI Software Engineer Intern

Charlottesville, VA · Jan 2026 – Present

- Architected a virtual private cloud (VPC) from the ground up, provisioning isolated dev and prod GCP project environments with NeonDB and blob storage buckets to fully migrate off Replit.
- Implemented GitHub-integrated CI/CD pipelines enabling automated deployments across a multi-project cloud infrastructure with zero manual promotion steps.

Pelagic AI

Artificial Intelligence/Machine Learning Intern

Herndon, VA · Jun 2025 – Aug 2025

- Designed a three-table SQLite schema, reducing scenario initialization time by 50%.
- Refactored FastAPI endpoints and centralized logging to improve latency and consistency.
- Built an OSM airport graph generation tool, live-demoed to Pelagic, proving a concept they later implemented.

Machine Learning Intern

Vienna, VA · Jun 2024 – Aug 2024

- Trained various machine learning models on orbital-mechanics data, predicting satellite slew time and reducing error.
- Engineered datasets and visualizations to enhance model accuracy and efficiency.
- Delivered actionable insights and production-ready code to Jacobs' \$16B Aerospace division.

PROJECTS

MLB Pitch Data Engineering & Analytics Pipeline

Fall 2025

- Built an end-to-end ETL pipeline using Prefect and DuckDB to ingest, transform, and validate MLB pitch data.
- Engineered 20+ features for downstream modeling, deployed a FastAPI service with endpoints for numerous data, and implemented live ETL pipeline triggering.
- Trained and benchmarked XGBoost and Random Forest classifiers across 140,000+ pitches to predict pitch type (9 classes, 55.5% weighted F1) and pitch call outcome, achieving 72% fastball accuracy and reducing XGBoost training time by 20%.

SKILLS & CERTIFICATIONS

- **Programming Languages:** Python, SQL, R
- **Tools:** Git, PyTorch, Scikit-Learn, Plotly, FastAPI, SQLite, NeonDB, Prefect, Jupyter, Docker, TensorFlow
- **Coursera:** Advanced Learning Algorithms | Supervised Machine Learning - Regression and Classification | Unsupervised Learning, Recommenders, Reinforcement Learning

LEADERSHIP

Beta Psi Chapter of the Sigma Alpha Mu Fraternity

Nov 2025 – Present

President

- Preside, direct, and attend all chapter-wide and UVA IFC meetings.
- Supervise the work of all chapter officers, scholarship requests, and general college activities across 60+ active brothers.

Google Developer Groups @ UVA

Sep 2025 – Present

Secretary

- Write weekly tech newsletters that improve member engagement and awareness of GDG initiatives across 150+ members.
- Manage rosters and meeting records, enhancing organization and information accessibility.

ACHA II Club Hockey @ UVA

Aug 2025 – February 2026

Assistant Coach

- Helped direct weekly practices for 20+ players, implementing drills that strengthened on-ice communication and efficiency.
- Delivered real-time strategy adjustments and player feedback during games, contributing to improved execution.