Jordan Harrington

OBJECTIVE To obtain full-time employment in a role that will provide practical experience in Software Engineering and Data Science while fostering my professional growth. I am particularly interested in gaining valuable experience in the areas of machine learning, data engineering, and/or full-stack software development.

EDUCATION

M.S. in Computer Science
The University of Texas at Austin
Expected Graduation: Aug 2027

B.S. in Computer Science Minor: **Mathematics**
Virginia Polytechnic Institute and State University
Graduated: May 2023 | **Honors:** Magna Cum Laude

B.S. in Computational Modeling & Data Analytics
Virginia Polytechnic Institute and State University
Graduated: May 2023 | **Honors:** Magna Cum Laude

PROFESSIONAL EXPERIENCE

Software Engineer, *Appian Corporation*, Tysons Corner, VA **(June 2023 - Present)**

Computational Modeling & Data Analytics Intern, *Virginia Tech,* Blacksburg VA **(Aug 2022 - May 2023)**

- Developed a financial data management system for the Virginia Tech Carilion School of Medicine which securely stores and visualizes metadata to better inform leadership on budget management decisions
- Assisted the CBHDS Web Team with maintenance and content management for their webpage
- Helped restructure and refine the codebase of a proprietary data visualization terminal which informs the American Statistical Association on the fiscal health of their chapters

Software Engineering Intern, *Department of Defense,* Fort Meade, MD **(May 2022 - Aug 2022)**

- Facilitated the integration of an open source geospatial indexing system within an Apache Hadoop based enterprise application to improve query performance on billions of data points by reducing the number and complexity of indexed fields
- Modified an existing JUnit test suite while utilizing Apache Maven to automatically compile, run, and test additions to the aforementioned enterprise application
- Developed a user friendly front-end tool in Python that interfaces directly with data storage platforms to facilitate a faster, more user-friendly querying experience in an effort to help non-technical analyst achieve optimal workflow
- Lead a team of six fellow interns in a machine learning initiative to improve the organization and performance of an experimental natural language based recommender system
- Architected and helped implement a performant, ensemble learning solution to tackle a multi-faceted, multi-label classification problem concerning natural language processing and, more specifically, topic modeling

Data Science Intern, *Department of Defense,* Fort Meade, MD **(May 2021 - Aug 2021)**

- Lead an R&D initiative to explore the effectiveness of Amazon SageMaker as a tool to help automatically build training sets and tune machine learning models while performing comparative analysis between SageMaker and competing professional Data Science/ML suites
- Performed extensive exploratory data analysis in SageMaker's Juptyer environment to help uncover insights within large datasets to better build, train, and tune XGB and Random Forest models in an effort to help solve a classification problem regarding anomaly detection
- Lead a panel discussion in front of peers and senior leadership regarding the shortcomings and future viability of utilizing SageMaker within Secret and Top Secret Regions

PROJECTS

Skywing Open Source Contributor, *Virginia Tech,* Blacksburg, VA **(Jan 2023 -May 2023)**

- Worked with a team of fellow undergraduates to help the Lawrence Livermore National Laboratory implement and integrate the Decentralized Langevin Monte Carlo Bayesian Inference algorithm into Skywing, a high-reliability, real-time, decentralized platform for collaborative autonomy

ThermoFlyAI Research, *Virginia Tech,* Blacksburg, VA **(Jan 2022 - Dec 2022)**

- ➢ Served as the Lead Software Engineer during the requirement specification, design, development stages of an effort to develop a new IoT thermostat system
- ➢ Built a kNN classifier from scratch with a custom weight methodology that took into account user's preferences to help classify a user's comfortability level
- ➢ Developed a tool which utilized REST API's to collect, format, and store data which would later be used to train our model
- ➢ Lead team meetings, customer progress reports, and a presentation to the Dean of Undergraduate Research at Virginia Tech on results of our first generation model and testing

CERTIFICATIONS **TS/SCI Security Clearance + Polygraph** | **Obtained:** May 2019

COMPUTER SKILLS
Languages: Java/JS, C/C++, Python, R, Matlab, SQL
Libraries: Sklearn, Pandas, NumPy, OpenMPI, Pthread, Apache Commons
Development Tools: Gitlab/GitHub, Apache Maven
Frameworks: JUnit, Apache Hadoop