

Jordan Harrington

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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, full-stack, and/or backend development.

EDUCATION **B.S. in Computer Science** Minor: Mathematics **Graduation: May 2023**
Virginia Polytechnic Institute and State University **Blacksburg, VA**
GPA: 3.75 / 4.0

B.S. in Computational Modeling & Data Analytics
Virginia Polytechnic Institute and State University

Advanced Studies Diploma **Graduated: June 2019**
St. Stephen's & St. Agnes School **Alexandria, VA**

RELEVANT COURSEWORK & EDUCATIONAL TOPICS

- Advanced Data Structures and Algorithms
- Computer Operating Systems and Organization
- Data Visualization and Machine Learning
- Statistical Methods and Analysis
- Discrete Mathematics, Linear Algebra, Multivariable Calculus
- Parallelism and Threading

COMPUTER SKILLS **Languages, Frameworks, Development Tools, Libraries, & Environments:**

- Windows (Desktop/Server) / Linux (CentOS)
- JupyterLab / Jupyter Notebooks
- Gitlab / GitHub
- Amazon SageMaker
- Apache Hadoop
- Java / C / Python / R
- Sklearn / BeautifulSoup / Pandas / NumPy
- Open MPI / Pthread

CERTIFICATIONS, TRAININGS, & CLEARANCES **ACTIVE Top Secret Security Clearance & Full Scope Polygraph**

- Obtained through Department of Defense in May 2019

Data Science in Amazon SageMaker Boot Camp

- Participated in three days of labs, lectures, and instruction from a certified AWS Professional who detailed various features and caveats within the Amazon SageMaker platform to include extensive discussion of automated model building and hyper parameter tuning

RELATED EXPERIENCE **Biostatistician Research Assistant Intern, Virginia Tech, Blacksburg VA (Aug 2022 - Present)**

- Working with Virginia Tech's Center for Biostatistics and Health Data Science to provide software support and solutions that satisfy business needs of the center and its clients
- Currently developing 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
- Assisting the CBHDS Web Team with maintenance and content management for their webpage

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

Lead Software Engineer - MINT Research, Virginia Tech, Blacksburg, VA (Jan 2022 - Present)

- Working in a team of fellow undergraduates to utilize machine learning in an attempt improve a Nest Thermostat's ability to tailor the temperature of its immediate environment to the preferences of a given user
- Built, trained, and tuned an XGBClassifier which classified a user's comfortability level given a subset of temperature related features as a part of a planned ensemble learning approach in which a neural network will adjust the current temperature given said classification
- Presented to a panel of peers and the Dean of Undergraduate Research at Virginia Tech on results of our first generation model and testing

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 Jupyter 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

Assistant IT Director, Ebenezer Baptist Church, Woodbridge, VA (2015 - 2019)

- Assessed, troubleshot, and provided guidance on issues related to the technological infrastructure and resources available within the church
- Performed Windows Desktop/Server Administration tasks to include detecting and removing spyware from machines within the facility
- Periodically held educational classes on various IT-related topics for our church members

ACTIVITIES/CLUBS & AFFILIATIONS

Member, National Society of Black Engineers (October 2019 - Present)

Member, Armed Forces Communications and Electronics Association (June 2020 - June 2022)

Resident Advisor, Virginia Tech Housing and Residence Life (August 2020 - May 2022)