

# Rithvin Koneru

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## EDUCATION

### University of Maryland

Pursuing BS in Computer Science(Data Science), Minor in Business, GPA: 3.7

College Park, MD

Aug. 2021 – Dec. 2024

Relevant Courses: Database Design, Web-App Development, Machine Learning, Data Science, Algorithms, Data Structures, Object-Oriented Design, Operating Systems, Statistics, Linear Algebra

## EXPERIENCE

### Software Engineering Intern

Textron

Jun. 2024 – Aug. 2024

Baltimore, MD

- Programmed C++/C testing tool for eCASS LXI radio frequency system used in Textron Systems' ground and air products, gaining experience in embedded systems.
- Conducted data analysis of radio system frequency test results using Python and NumPy/Pandas libraries to understand trends and improve system performance.
- Integrated/tested software on actual radio systems, gaining experience with full software development life cycle.

### IT Software Engineering Co-Op

UPS(United Parcel Service)

Jun. 2023 – May 2024

Remote

- Automated QA file comparison processes and mock data creation for performance tests through Java development of software tools.
- Utilized Google Cloud BigQuery and Cloud Storage for data analysis of payroll vendor data and mock employee data, ensuring accurate testing and compliance with vendor file restrictions.
- Created PowerBI reports from Azure DevOps data to enhance efficiency of developer and QA operations.

### Undergraduate Research Assistant

University of Maryland Department of Physics

Jan. 2022 – May 2022

College Park, MD

- Developed Python scripts for the Worldwide LHC Computing Grid to organize and present particle accelerator simulation data.
- Analyzed simulation trends using error calculations and visualizations to enhance the online model.
- Increased model accuracy by 50% with Python scripts.
- Utilized NumPy, Pandas, and Matplotlib in Python notebooks to study, organize, and showcase simulation data.

## PROJECTS

### AI-Powered F1 Race Predictor | Python, sklearn, Flask, AWS

Jul. 2024

- Developed a Flask web application integrated with AWS SageMaker to predict Formula1 race outcomes.
- Deployed the application on AWS Elastic Beanstalk/EC2 to make it accessible online.
- Implemented secure API endpoints to handle predictions, ensuring scalability and reliability for end users.

### Movie Recommender Web-App | JavaScript, HTML, CSS, MongoDB, Node.js, React

May 2024

- Developed a web application allowing users to create profiles based on their favorite movie genres and receive personalized movie recommendations using a film database API.
- Implemented features for users to connect with others in their area who share similar movie interests, facilitating social interactions based on their profile.

## TECHNICAL SKILLS

**Languages:** Python, Java, SQL, Kotlin, C++/C, JavaScript(Node.js, Express, MongoDB), HTML/CSS

**ML Tools:** Scikit-Learn, Google Colab/Jupyter Notebooks

**Data Analysis Tools:** Matlab, NumPy, Pandas, Matplotlib, R, Microsoft PowerBI

**Developer Tools:** Git, Agile Methodologies, Linux, GitHub, Azure DevOps

**Platforms/IDE:** AWS, Google Cloud Platform(Containers, BigQuery, Cloud Code), Visual Studio Code