Rithvin Koneru

862-777-1901 | rithvin16@gmail.com | LinkedIn | Portfolio

Education

University of Maryland College Park, MD
Bachelor's of Science in Computer Science(Data Science), Minor in Business, GPA: 3.7 *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 Jun. 2024 – Curr.
Textron *Washington DC - Baltimore Area*

- Develop and test C++/C code for radio frequency systems used in Textron Systems' ground and air products, gaining experience in embedded systems.
- Conduct data analysis of radio system frequency tests using Python and NumPy/Pandas libraries to understand trends and improve system performance.
- Integrate and test software on actual radio systems, ensuring functionality and reliability in real-world conditions.

IT Software Engineering Co-Op Jun. 2023 – May 2024
UPS(United Parcel Service) *Remote*

- Helped migrate UPS legacy payroll systems to Google Cloud Platform using BigQuery, GCE, and Cloud Code programming.
- Automated QA testing processes and mock data creation for performance tests through Java development.
- Created PowerBI reports from Azure DevOps data to enhance efficiency of developer and QA operations.

Undergraduate Research Assistant Jan. 2022 – May 2022
University of Maryland Department of Physics *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

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

Predictive AI Model for Heart Failure | *Python, sklearn, NumPy, Pandas, Seaborn* Aug. 2023

- Trained scikit-learn regression and tree-based AI models which read and manage inputted patient health data
- Provides a prediction as to whether they will be prone to heart failure and mortality through mean error calculations of data
- Cleaned and managed dataset of 1000 patients to drive modeling and deployment process

Technical Skills

Languages: Python, SQL, JavaScript(Node.js, Express, MongoDB), Java, HTML/CSS, C++/C
ML Tools: SkLearn, Google Colab/Jupyter Notebooks, Generative AI(Vertex AI)
Data Analysis Tools: MySQL, NumPy, Pandas, Matplotlib, Microsoft PowerBI, MATLAB
Developer Tools: Git, Agile Methodologies, Linux(emacs,vim), GitHub, Azure DevOps
Platforms/IDE: Google Cloud Platform(Containers, BigQuery, Cloud Code), Visual Studio Code, MS Office