Rithvin Koneru

862-777-1901 | rithvin16@gmail.com | linkedin.com/in/rithvin | My Portfolio

Education

University of Maryland College Park, MD
Bachelor of Science in Computer Science, Minor in Business, GPA: 3.7 *Aug. 2021 – Dec. 2024*

–Relevant Courses: Object-Oriented Programming, Data Science, Algorithms, Data Structures, Discrete Math, Computer Systems, Linear Algebra, Calculus I and II, Probability and Statistics

Experience

IT Software Engineering Co-Op June 2023 – Present
UPS(United Parcel Service) *Parsippany, NJ*

- Developing software to migrate UPS legacy payroll systems to Google Cloud Platform
- Using cloud application development tools such as BigQuery, GCE, and Cloud Code
- Automating data creation and testing process for performance/integration E2E testing of the application by developing Java-based tools using testing application frameworks (TestNG, Selenium, Swing, JMeter)
- Transforming testing data of the new payroll system into PowerBI reports sourced from Azure DevOps

Undergraduate Research Assistant Jan. 2022 – May 2022
University of Maryland *College Park, MD*

- Developed data-analysis scripts of the Worldwide LHC Computing Grid, a particle accelerator simulation
- Interpreted accuracy trends from scripts across simulations to adjust and improve machine runs
- Programmed within Python-driven notebooks to study, organize, and present incoming simulation results data using NumPy, Pandas, and Matplotlib libraries

FTC(First Tech Challenge) Team Member Sep. 2019 – May 2021
Team: Metal Marauders 6337 *Parsippany, NJ*

- Contributed to the development of robot movements and actions as a Python developer
- Coded functionalities that were utilized in competitions and based on yearly challenge requirements set by FTC
- Utilized SolidWorks to create 3d-designs and plans for robot mechanisms and features before development
- Contributed around 1000 lines of code to an established codebase via Git
- Won team Innovate Award in 2020 regional competition for use of modern technologies and parts

Projects

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

- Trained scikit-learn regression 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

UPS Hackathon Project | *Python, SQL, Figma, Git* July 2023

- Developed a Figma mobile app solution for third-party UPS vehicle drivers to register their personal vehicles and receive assigned packages for delivery
- Packages are allocated based on a developed assignment algorithm in Python and SQL queries of driver, vehicle, and package data
- Presented solution to judges and UPS executives

Technical Skills

Languages: Java, Python, C, SQL, Ruby, Rust, OCaml, R
ML Tools: TensorFlow, Google Colab/Jupyter Notebooks, Generative AI(Vertex AI)
Data Analysis Tools: SQL, NumPy, Pandas, Matplotlib, Microsoft PowerBI, R, MATLAB
Developer Tools: Git, Agile Methodologies, Unix/Linux, GitHub, Azure DevOps
Platforms/IDE: Google Cloud Platform, Visual Studio Code, Eclipse, PyCharm, Figma