Reshmasai Malleedi

<u>rmalleedi@outlook.com</u> • (980) 289-9119 • <u>https://www.linkedin.com/in/reshmasaimalleedi/</u> • <u>reshmasaimalleedi.netlify.app/</u> **Grace Hopper Celebration v2021, 2022**

EDUCATION

University of North Carolina at Chapel Hill | Chapel Hill, NC

Graduation May 2023

B.S. Computer Science, B.A. Mathematics, Data Science Minor

GPA: 3.87/4.00

Coursework: Data Structures, Algorithms, Object-Oriented Programming, Systems of Programming, Introduction to Web Development, Models of Languages and Computation, Linear Algebra, Discrete Mathematics, Differential Equations

EXPERIENCE

Software & Data Engineer Intern, Wells Fargo

June 2022 – Aug 2022

- Worked on data ingestion (from APIs and databases) and curation using ETL tools, SQL, and Apache Hadoop.
- Developed API based applications/scripts to support Tableau operations.
- Gained practical experience in building ETL solutions, data analysis and visualization, and shell script programming.
- Built interactive **BI dashboards**.
- Used Data Control Integration (**DCI**) concepts to load raw and sanitized data.

Research Assistant, Yan Research Lab

Dec 2020 - Aug 2021

- Worked alongside PhD students to rewrite a LabVIEW program based on real-time particle tracking to incorporate machine learning models; python-based.
- Explored deep learning models (**convolutional neural networks**) for particle tracking reconstruction.
- Assisted in developing **control systems** in the optics lab by coding presets for different shaped holograms used in nanoparticle trapping.
- Manipulated code to test phase and intensity modulations in performance against optical trapping methods.

PROJECTS

SafeEats Mobile Food Delivery Application | *XCode, React, Figma, Python*

August 2022

• Created an UberEats related mobile food delivery application for a client fully functional and linked to Google Maps API for location services and and Yelp API for restaurant reviews and contact information.

Personal Website | HTML, CSS, JS

July 2022

• Created personal website using HTML, CSS, JavaScript from scratch.

• Created personal website using HTML, CSS, JavaScript from scratch

Akari Game | Java April 2022

- Recreated the Japanese children's game *Akari* with a **GUI** that allowed players to interactively play multiple different puzzle boards.
- Implemented the algorithm behind the game using **JavaFX** and the **MVC** framework.

Intrusion Detection Filter | R, Jupyter Notebook

December 2021

- Used R to analyze and model a simulated Local Area Network dataset from Lincoln Labs at MIT.
- Utilized **statistical machine learning** methods and algorithms (**decision trees, k-means clustering, naïve bayes**) to develop an intrusion detection filter with **99.67% training accuracy** on the test set.

LEADERSHIP

Undergraduate Teaching Assistant, UNC Mathematics Department

Jan 2021 – Dec 2021

- Assisted live lectures for Calculus 1 and Linear Algebra; answered students' questions in real-time.
- Held open office hours on a weekly basis and hosted review sessions before midterms and finals.
- Developed **leadership** skills by working with professors and other teaching assistants in creating and syncing the curriculum to offer the best help for students.

SKILLS & TECHNICAL TOOLS

Languages: Java, Python, SQL, TypeScript, C, HTML/CSS, JavaScript, R

Technologies: UNIX/shell script, Git, Apache Hadoop, pandas, NumPy, Scikit-learn, Tableau, Jupyter Notebook, LabVIEW,

MATLAB, PuTTY, Docker