

Rithvik Reddygari

linkedin.com/in/rithvik-reddygari | 571-465-6347 | reddygari.rithvik@gmail.com

EDUCATION

Georgia Institute of Technology

Atlanta, GA

BS in Computer Science, Minor in FinTech; GPA: 3.84

Graduation Date: May 2026

- Organizations: GT Fintech Club, GT Trading Club, GT Jadoo Bollywood Fusion Dance Team (Social Media Lead)
- Relevant Coursework: Data Structures and Algorithms, Intro to Comp Org & Programming, Intro to Database Systems, Design & Analysis of Algorithms, Systems & Networks*, Computer Networking I*, Intro to AI*
* by the end of 2024-2025 Spring

WORK EXPERIENCE

Georgia Tech Research Institute

Atlanta, GA

Full-Stack Cybersecurity Software Engineer Intern

May 2024 – August 2024

- Spearheaded full-stack application development and maintenance on Javelin, a government personnel management application, utilizing Angular, JavaScript, Java, React, and OracleSQL.
- Led the design and implementation of user interfaces using Angular and React, while also managing web server operations with Java applications and OracleSQL databases.
- Prioritized and optimized cybersecurity measures and information protection strategies, directly contributing to the security and efficiency of diverse software projects, while collaborating in a Scrum team to ensure timely and efficient project delivery.

George Mason University

Fairfax, VA

ASSIP Intern – Software Engineering

June 2022 – August 2022

- Developed an XGBoost model for ML-driven Snow Water Equivalent predictions, achieving an overall accuracy of 98.1% by integrating data from the Sentinel-1 and 2, MODIS, and SNOTEL satellites.
- Designed and implemented station-specific LSTM models for a mobile app, significantly reducing processing times for real-time Snow-Water-Equivalent predictions.
- Integrated and analyzed complex data sets from multiple satellite projects and ground measurements using advanced ML models (Random Forest, GhostNet, LSTM, GRU), deployed through a Flask server for real-time accessibility.

PROJECTS

Advanced Password Manager

Ashburn, VA

C++ Based GUI Password Manager System

- Created a password manager with a user-friendly GUI using C++ and Qt, ensuring efficient secure storage and management of user credentials.
- Implemented Fast Positive Hash, increasing hash speed by 15%, for master authentication and RSA encryption for account password retrieval, both manually coded in C++, ensuring robust security.
- Optimized application performance and security through advanced cryptographic techniques, resulting in a secure and efficient password management solution.

StockVisAI

Ashburn, VA

React Stock Visualization App

- Developed a sophisticated stock visualization app using React, leveraging the Finnhub REST API to fetch real-time stock information, ensuring accurate and up-to-date data for users.
- Integrated AI to analyze stock trends and provide predictive insights, enhancing the app's functionality with advanced data analysis and decision-making tools.
- Implemented dynamic and interactive data visualizations, improving user experience by presenting complex stock data in an accessible and intuitive manner, while adhering to best practices in responsive design.

Walker - Computer Vision driven navigation for the visually impaired

Alexandria, VA

HackTJ 8.0 – 1st Place in Best AI/ML Hacks

- Engineered a computer vision-based navigation system utilizing YOLOv3 and the COCO dataset to aid visually impaired individuals.
- Implemented real-time object identification and spatial localization, providing auditory guidance via Google's Text to Speech API.
- Developed and tested application features in Python, ensuring seamless user interaction and accessibility for visually impaired users.

SKILLS & INTERESTS

Programming Languages: Python, C++, Java, C, SQL, HTML/CSS, JavaScript

Frameworks/Libraries: React, Django, Angular, Android Studio, PyTorch, OpenSSL, Qt Flask, Bootstrap, XGBoost, pandas, NumPy, Matplotlib

Software: Jira, Notion, Asana, Monday.com, Trello, Confluence, Miro, Tableau, Slack

Skills: Advanced Algorithm Design, Frontend Design, Predictive System Development, Financial Analysis, Full-Stack Software Development, Scientific Research & Publication, Educational Outreach & Tutoring, Agile Project Management, Data Structure Optimization, Machine Learning Implementation, Strategic Analysis & Problem Solving, Technical Presentation & Communication

Interests: Finance, Trading, Dancing, User Experience & Accessibility, Traveling