

MANASVI GADDAM

Atlanta, Georgia

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Education

Georgia Institute of Technology

Bachelor of Science in Computer Science

May 2025

Atlanta, Georgia

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Information Security
- Machine Learning
- Database Management
- Agile Methodologies
- Computer Architecture

Technical Skills

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

Tools/Database: VS Code, Android Studio, Git, Postman, Eclipse, AWS, MinIO, Jenkins, GitHub

Frameworks: React Native, React JS, Docker, Kafka

Experience

Georgia Institute of Technology - Research Department

June 2023

Data Science Research Intern

Atlanta, Georgia

- Utilized correlation analysis on a dataset of trace analysis containing over 1,000,000 ML jobs to determine the impact of machine and user resource constraints on the failure probability.
- Conducted linear regression to develop a predictive model with a 0.92 F1 score for estimating the probability of job failures based on user parameters.

Total Systems Services

June 2022 – August 2022

Software Engineer Intern

Atlanta, Georgia

- Optimized Kafka to enhance inter-component communication in the documentation server, achieving real-time updates with minimal latency and reducing document generation time from 3 seconds to 1.5 milliseconds.
- Executed Jenkins build and test on all code changes identifying performance bottlenecks and ensuring the server's speed
- Employed Postman's API testing capabilities to automate the generation and execution of test cases for the documentation server providing metrics on speed improvements

Projects

Good Voice Speech Recognition | *Python, React Native, AWS*

January 2021

- Developed a cross-platform mobile application using React Native, leveraging AWS Amplify and Amazon S3 buckets allowing user authentication enhancing data security and user privacy.
- Achieved a 30% reduction in data retrieval time using a GraphQL API for real-time data synchronization
- Implemented offline data synchronization using AWS Amplify DataStore improving user engagement by 15%.

Heart Disease Prediction Model | *Python, Numpy, Sci-kit learn*

August 2022

- Employed feature analysis to identify the most influential factors contributing to heart disease prediction through correlation assessments and domain knowledge
- Achieved a 0.89 F1 score using Random Forest algorithms with hyperparameter tuning, bootstrap aggregating, and decision tree optimization

Georgia Tech Hackathon Website | *JavaScript, Google Analytics*

November 2022

- Integrated Google Analytics into the website enabling real-time data collection to monitor specific user interactions, including clicks on buttons, video views, and scroll depth providing insights into user engagement and identifying popular pages and elements

Leadership / Extracurricular

HexLabs Georgia Tech's Computing Association

January 2022 – December 2022

Finance Liaison

- Responsible for raising 200,000 dollars through sponsorship deals with large venture capitalist firms
- Generated website efficiency and return on investment reports while serving as a liaison for 4 sponsors

Society of Women in Engineer

January 2023 – Present

Internal Events Coordinator

- Launched a mentoring program that includes year-round workshops, alumni/company panels, and networking with a 95% satisfaction rate amongst members
- Cultivated a community of intelligent women to encourage exchanges of new concepts and technical problems