

NISHA RAMANNA

New York, NY | (615) 788-4556 | nisha.ramanna@nyu.edu | [LinkedIn](#) | [GitHub](#)

EDUCATION

New York University, New York, NY

Aug 2020 – Present

Masters of Science, Computer Science, Overall GPA: 3.33 (Expected May 2025)

Bachelors of Science, Computer Science, Overall GPA: 3.89 (Expected May 2024)

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Architecture, Computer

Networking, Network Security, Introduction to Databases, Introduction to Machine Learning, Introduction to Web Development

SKILLS

Java, Python, C, C++, JavaScript, Node.js, SQL (MySQL and PostgreSQL), Git, Linux, Flask, HTML, CSS, Bootstrap, Sudoku!

EXPERIENCE

Machine Learning Researcher, **New York University**, New York, NY

Sep 2023 - Present

- Working under Professor Ray Lui to develop an accurate algorithm which performs semantic analysis on human written text
- Implementing and improving machine learning algorithms using Tensorflow; analyzing accuracy
- Creating AI chatbot which reads in text and outputs response, acting as a personal assistant

Software Engineering Intern, **Humana**, Louisville, KY

May 2023 – Present

- Developing a JavaScript/Node.js application to perform security scans on open-source repositories used by 50+ employees
- Reduced time spent fixing security vulnerabilities, saving Humana \$87,000-162,000 annually
- Led team of three through software development lifecycle (SDLC), implementing CI/CD and agile practices
- Utilized Azure DevOps Rest APIs to proactively notify employees about vulnerabilities, preventing potential security leaks and improving cybersecurity and risk management measures
- Created a relational database using Docker and Postgres to store crucial information, allowing for efficient data access

Head of Inclusion, Diversity, Belonging, and Equity & TA, **NYU General Engineering**, New York, NY

Aug 2022 – Present

- Spearheaded the creation of curriculum taught to NYU Tandon's entire freshman class on IDBE principles
- Create and conduct IDBE training for department faculty and teaching assistants, fostering a culture of inclusion
- Guide students through the Engineering Design Process to create innovative solutions to real-world challenges
- Conduct engaging classes with 15+ students, honing their technical, business, and presentation skills
- Facilitate laboratory sessions for students, fostering a hands-on learning environment which promotes critical thinking

Software Engineering Intern, **HCA Healthcare**, Nashville, TN

July – Aug 2022

- Shadowed software engineers and data scientists across multiple HCA teams
- Collaborated with a team of engineers to present on ethics in artificial intelligence to over 100 employees
- Gained insight into the intersection between healthcare and tech by observing product demonstrations and code reviews

PROJECTS

Period Tracker App

July 2023

- Developed a holistic period tracking app using React and Figma to educate users about menstruation and improve their wellbeing, showcasing skills in mobile application development
- Demonstrated problem-solving skills by crafting innovative solutions for problems in the healthcare industry under time constraints during the intense Hackathon environment

Machine Learning Wine Quality Prediction

March - May 2023

- Employed machine learning concepts to pre-process wine quality data using Pandas and NumPy
- Utilized scikit-learn modules to implement and compare ML algorithms
- Analyzed algorithmic accuracies to determine the optimal approach

Flight Tracker Website

March - May 2023

- Created a full stack application to help users book and manage flights
- Used database design skills to create an SQL database, focusing on strategic data management
- Used HTML, Bootstrap, and Python Flask to create application's front-end, showcasing web application development skills

Car Dashboard

Feb - April 2023

- Designed and programmed a car dashboard with GUI visualization using Python and PyGame modules
- Wrote code to process data sent from multiple sensors to a Raspberry Pi

ACTIVITIES

Chair, **Association of Computing Machinery for Women**

Aug 2022 – Present

- Coordinate finances, events, and communication with the goal of empowering women in computing
- Increased membership by 40% through skillful design and networking efforts
- Led workshops on HTML, Bootstrap, and Data Structures to 60+ students, fostering learning and collaboration
- Facilitate industry mentorship connections for aspiring female technology professionals

Media Lead & Electronics Team Member, **NYU Motorsports**

Aug 2022 – Present

- Developed a Python car dashboard for use in competition
- Created and manage websites to display data generated by telemetry system; use Heroku, Digital Ocean, Docker, and Grafana
- Orchestrated successful fundraising events using strong communication skill; generated \$300+