

ANANT SHYAM

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EDUCATION

Cornell University

August 2021 - May 2025

Bachelors of Science in Computer Science (3.82 GPA)

Ithaca, NY

Relevant Coursework: Analysis of Algorithms, Machine Learning, Functional Programming, Linear Algebra, Multi-variable Calculus, Probability, Discrete Mathematics, Data Structures

RESEARCH EXPERIENCE

Cornell University Computer Systems Laboratory

August 2022 - Present

Machine Learning Research Assistant

Ithaca, NY

- Working on a research project, which aims to deploy and optimize binary neural networks on an Associative Processing Unit (APU), advised by Professor Zhiru Zhang, an ECE Professor at Cornell University.
- Used the GVML library to develop a ReLu layer for the binary neural network, which aims to process and filter large matrices of information.

White Plains Hospital

September 2019 - May 2021

Data Analytics Research Assistant

White Plains, NY

- Applied R and linear regression principles to analyze which sources of information best help doctors treat COVID-19 infected patients, advised by Dr. Farrukh Jafri, an Experienced Medical Doctor and Simulation Educator.
- Presented my projects at various technical conferences throughout Westchester County, NY. Won the Innovations in Biological Sciences Research and First Place in Medicine and Health awards for displaying ingenuity in the fields of technology and medicine through my COVID-19 project.

INDUSTRY EXPERIENCE

Interactive Brokers

June 2022 - August 2022

Software Engineer Intern

Greenwich, CT

- Enhanced the tool that the Risk Team uses to approve or reject margin changes for a particular stock to reduce room for error and time required to review margin changes
- Retrieved margin-rates related data (specifically the margin rule input) from numerous relational databases using MySQL, stored the margin rule input using Perl, and properly displayed the data for the user using HTML and JavaScript.
- Developed a stand-alone Python script, which interprets margin-rates related data from a CSV file and updates the appropriate relational database with this information.

TEACHING EXPERIENCE

Object-Oriented Programming and Data Structures (CS 2110)

January 2023 - May 2023

Course Staff Member

Ithaca, NY

- Hold office hours for about 700 students to enhance their understanding of various data structures, algorithms, and Java concepts. Grade exams and programming assignments.

Introduction to Computing using Python (CS 1110)

August 2022 - December 2022

Course Staff Member

Ithaca, NY

- Held office hours for about 800 students to enhance their Python and software development concepts, including loops, recursion, object-oriented programming and searching/sorting algorithms. Grade exams and programming assignments.

EXTRA-CURRICULAR ACTIVITIES

Cornell Cup Robotics

October 2021 - May 2022

Software Developer

Ithaca, NY

- Developed a speech-to-text chatbot using Python to deal with human question-answering as well as specific robotic commands with the project team.
- Applied Natural Language Processing principles to determine which task a chatbot should complete based on a human's command. Employed a classification model to determine what kind of questions a chatbot is asked.

AWARDS AND RECOGNITIONS

Dean's List. Received this award for getting a 3.5+ GPA for all semesters of college

2nd Best Overall App Award. Built an app that allows users to find, search and host parties near you. Received the 2nd place app award at a Hack Challenge hosted by Cornell University.

Columbia University Science Honors Program Scholar. Accepted by Columbia University to participate in their high school science honors program (approx. 10 % acceptance rate). Took graduate-level courses as a high school junior and senior.

Salutatorian. Received this award for being ranked 2nd in my high school.