Anant Shyam

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EDUCATION

Cornell University   Ithaca, NY
Bachelor of Science in Computer Science, Minor in Applied Mathematics   *Aug '21 – May '25*
- Dean's Merit List Scholar (GPA: 3.75)
- Relevant Coursework: Analysis of Algorithms, Machine Learning, Large Scale Machine Learning, Natural Language Processing, Computer Systems Programming, Functional Programming, Linear Algebra, Statistics and Probability, Discrete Mathematics, Object-Oriented Design and Data Structures, iOS Development, Python Programming

PROFESSIONAL EXPERIENCES

Cleo   Rockford, IL
Software Engineer Intern   *Jun '23 – Aug '23*
- Developed a prototype machine learning model using Keras, Scikit-Learn, and Tensorflow which learns how to write code in a language similar to Cleo's language with accuracy of approximately 70%. Pitched my model to the Director of Product Development and explained its' potential to be expanded to learn Cleo's language.
- Researched into various forms of generative AI to write code that transforms trading partner files into the proper files that our customer needs using Cleo's programming language. Provided recommendations to the Product Development Team on how to reduce the room for error and time needed for the data transformation to occur.

Cornell University Department of Computer Science   Ithaca, NY
Teaching Assistant   *Aug '22 – Present*
- Selected to serve as a Teaching Assistant for the following courses: Functional Programming, Object-Oriented Design and Data Structures, Python Programming
- Hosted office hours for 500+ students to enhance their understanding of data structures, functional programming, and object-oriented programming. Led weekly discussion sections to reinforce material taught in lecture.
- Mentoring student-teams through semester-long software development projects, as well as assisting students with their assignments and exam preparation.

Cornell University Computer Systems Laboratory   Ithaca, NY
Machine Learning Researcher   *Aug '22 – May '23*
- Worked under Professor Zhiru Zhang, an ECE Professor at Cornell University, on a research project. This project aims to deploy and optimize binary neural networks on an Associative Processing Unit (APU).
- Used the GVML library to develop a ReLu layer for the binary neural network. This layer aims to process and filter large matrices of information. Worked on an element-wise add layer for the binary neural network.

Interactive Brokers   Greenwich, CT
Software Engineer Intern   *Jun '22 – Aug '22*
- Enhanced the tool that the Risk Team used to approve or reject margin changes for equities to reduce room for error and time required to review.
- 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.
- Developed a Python script which interprets margin-rates related data from a CSV file and updates the appropriate relational database with this information.

PROJECTS

FindMyParty | *Python, Swift, Flask, Firebase, Alamofire, Ruby, Git*
- Programmed on a team of five to develop an app which registers local parties nearby and allows users to search for and add their own parties. Won second place overall out of approximately 30 teams in a Cornell University hackathon.
- Developed the frontend using Swift and UIKit. Backend written in Flask and deployed on Heroku. Used Firebase Authentication, Image Storage, and Google Maps SDK Implementation with custom markers and infowindows.

SKILLS AND INTERESTS

Languages: Python, Java, OCaml, Swift, PHP, Perl, C, SQL, HTML, CSS, Bash, LaTeX
Libraries/APIs: OpenAI, PandasAI, Tensorflow, PyTorch, Pandas, Matplotlib, scikit-learn, GVML, Keras, Flask
Interests: Playing Badminton, Running