NILESH GUPTA

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EXPERIENCE

Summer Analyst

Goldman Sachs

May 2019 – Present New York City, NY

- Worked in Technology Risk on SWAT team
- Saved firm $150,000/year by writing internal multi-threaded scanning tool using pattern matching to remove passwords from projects stored on gitlab
- Maven project using GET calls from gitlab with Java and Spring powering back-end and findings being stored into MongoDB

Software Engineer Intern

Capital One

Sept. 2017 – May 2018 Champaign, IL

- Logistic Regression for anomaly detection to detect fraudulent credit card applications
- Product translator that converts IBM DB2 databases to s3 buckets within AWS
- Made credit card application process more user friendly by using JQuery to auto-fill fields

Course Assistant for CS357-Numerical Methods

University of Illinois, Urbana-Champaign

Aug. 2018 – Dec. 2018 Champaign, IL

- Led discussion section for honors students and conducted office hours for a deeper dive into theoretical concepts discussed in lecture

Computer Science Intern

Aptiv

June 2018 – Aug. 2018 Mountain View, CA

- Used fused track data (Radar and LIDAR) from autonomous vehicle to visualize the surrounding environment through C and Unity.

TECHNICAL SKILLS

Python, Java, Spring
Pytorch, C++, C#, R, C
Golang

COURSEWORK

- CS: Artificial Intelligence, Databases, Data Structures, Systems Programming, Algorithms, Computer Architecture, Numerical Methods, Programming Studio, Machine Learning
- Stats: Applied Statistics, Statistical Programming, R Programming for Data Science, Statistical Computing
- Math: Calculus 3, Linear Algebra, Fundamental Mathematics
- Informatics: Data Science Foundations, Advanced Data Science

EDUCATION

B.S. Computer Science & Statistics

University of Illinois, Urbana-Champaign

December 2019 Champaign, IL

- GPA: 3.85

PROJECTS

Goldman Sachs Datathon

- Used Principal Component Analysis to reduce dimensionality on features from open source marquee data to predict volatility

Energy Dissagregation via Adaptive Filtering

- Working with UC Berkeley PhD students and faculty creating Gaussian Mixture Models for devices and being able to predict an energy consumption value as a device in multiple dimensions through time steps

Imitation Learning/Behavioral Cloning

- Worked with Dr. Driggs-Campbell to write Daggr algorithm using a neural network that allows an AI kart to drive like a human (imitation) and complete any track

Jane Street etc

- Developed algorithm to buy and sell bonds and stocks efficiently to create a profit

HackMIT

- Encryption software that takes in new image and hashes to prevent scammers from stealing pictures

NCAA Scout

- Web application allowing users to invest currency into NCAA basketball based on NBA growth potential with additional features including predictions for most promising players.

Research Assistant

- Visualized and analyzed data for Dr. Michelle Thomey to include in her paper on how sucrose and glucose affect growth in plants.

HackIllinois

- Website created for travel social network using MySQL and PHP

AWARDS, PATENTS & PUBLICATIONS

- Dean's List Spring 2017, Dean's List Fall 2018, Dean's List Spring 2018
- Pending patent on safe AMoD vehicle exit on incline
- Pending publication on Energy Disagregation via Adapative Filtering