

PRANJALI SHARMA

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EDUCATION

Columbia University, The Fu Foundation School of Engineering and Applied Science New York, NY
Bachelor of Science in Computer Science, Major GPA- 4.0/4.0, Cumulative GPA- 3.79/4.0 Expected May 2022
Relevant Coursework: Data Structures and Algorithms in Java, Introduction to Computer Science and Programming in Java, Calculus, Introduction to Python, Advanced Programming in C, Discrete Mathematics
Academic Honors- Dean's List (Fall 2018 and Spring 2019)

ENGINEERING PROJECTS

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- **Web Server-** December 2019
Created a web-server from scratch that implements three-tier architecture using Sockets API in C language
 - **MyString Type -** November 2019
Implemented the String class from pre-defined C libraries with modified functionality in a UNIX environment
 - **3-1-1 Housing Notification-** October 2019
Built the email notification feature by implementing SendGrid API in Flask for housing complaints in NYC
 - **Inter-city Navigation-** April 2019
Developed a program in Java that outputs the shortest path between multiple American cities on the map using Dijkstra's algorithm
 - **Video Poker-** January 2019
Wrote the backend program for a video poker game in Java using multiple classes and object-oriented programming
 - **Wine Classifier using ML-** January 2019
Designed and trained a classifier in Python that predicts whether a wine is red or white based on the given chemical factors

PROFESSIONAL EXPERIENCE

Emerging Scholars Program, Columbia University New York, NY
Workshop Facilitator September 2019 - Present

- Conducted weekly workshops to familiarize prospective Computer Science majors with the various aspects and applications of CS in the real world
- Taught the basics of topics like Computer Linguistics, UI/UX design, Cryptography, Networks, Algorithms, and Artificial Intelligence

Indian Institute of Technology, Delhi New Delhi, India
Summer Research Intern June - July 2019

- Developed an algorithm to increase the accuracy of object detection by implementing a unique collaborative algorithm in a network of IoT devices
- Revamped a pre-existing collaboration protocol to work on both static and mobile IoT devices without compromising on accuracy using Keras and Python libraries

Department of Mathematics, Columbia University New York, NY
Teaching Assistant September 2019- Present

- Taught key concepts of Calculus I to over 200 students in weekly office hours, emails, and tutoring sessions
- Assisted with grading weekly assignments, creating problem sets, review documents, and exam preparation material

LEADERSHIP EXPERIENCE AND EXTRACURRICULARS

Columbia University, NCAA Division I Women's Squash Team New York, NY
Member September 2018 - Present

- Dedicate 15 hours per week to practice, conditioning, competitions, and team meetings while balancing an engineering course load
- Serve as a weekly academic and squash volunteer for high school students at the Street Squash Center

Columbia Social Entrepreneurship Group New York, NY
Technical Member September 2019 - Present

- Designed the email notification feature in 3-1-1 housing notification website using SendGrid API in Flask
- Developed the backend of the 3-1-1 notification website which uses the NYC database to notify residents about landlord complaints

Women in Computer Science New York, NY
Event Coordinator January - May 2019

- Organized and volunteered in NetWics- Networking Event and DivHacks- Columbia's only diversity centric hackathon
- Contributed actively in weekly meetings to increase female engagement in Computer Science both on campus and in local schools

International Student Orientation Program New York, NY
Orientation Leader August - September 2019

- Led groups of first-year college students throughout the pre-orientation program and helped them get adjusted to college culture
- Worked as a part of a larger team of student leaders to achieve common goals and prevent conflicts in a team setting

SKILLS

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- Java, Python, HTML, C, and C++
 - Resident Advisor for Columbia Housing