

Tamjeed Azad

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EDUCATION

- **Columbia University, B.S. (Anticipated)** New York, NY
Major in Computer Science, Minor in Economics. *August 2018 - May 2022*
 - Cumulative GPA: 3.99/4.00. Dean's List All Eligible Semesters. CP Davis Scholar, CU Scholars Program.
 - Selected CS Coursework:
Current: Comp. Aspects of Robotics, Computer Graphics, Algorithm Analysis, Prog. Langs. & Translators.
Completed: Machine Learning, Natural Language Processing, Artificial Intelligence, Computational Linear Algebra, CS Theory, Intro to Prob & Stats, Advanced Programming in C/C++, Fundamentals of Computer Systems, Data Structures and Algorithms in Java, Discrete Mathematics.

TECHNICAL SKILLS

- **Proficient:** Python, Java, C/C++, HTML/CSS, JavaScript | **Tools:** Google Cloud Platform, Bash, GIT

EXPERIENCE

- **Research Assistant, Azizi Lab** Columbia University
Currently use ML methods implemented in Python to analyze tissue and genomic data. *February 2020 - Present*
 - Currently working on a project analyzing immune cell dynamics in lymphoblastic leukemias. Previously worked on a project analyzing immune cell lineage vs differential gene expression in Growth v Host Disorder patients' tissues using unsupervised learning methods.
- **Summer Research Intern, Qin Lab** University of Tennessee at Chattanooga
Paid Internship through iCompBio REU 2020, an NSF-funded program. *May 2020 - July 2020*
 - Created several LSTM-based neural net models using TensorFlow for predicting weekly new COVID-19 positive cases in New York, Texas, California, and Florida. Code on personal GitHub page.
 - Analyzed effectiveness of using historical flu data and temperature data for prediction.
- **Teaching Assistant** Columbia University
Lab Assistant for ELEN 1201: Introduction to Electrical Engineering. *Fall 2020, Spring 2021*
 - Grade lab reports and hold virtual lab office hours for 6 hours a week to guide students through lab assignments.
- **Research Assistant, Synthetic Biological Systems Lab** Columbia University
Assistant in research on engineering bacterial biosensors for cancer tumor detection. *October 2018 - August 2019*
 - Completed paid summer internship in the lab through CU's Summer Undergraduate Research Fellowship in 2019.
 - Engineered bacteria that selectively grew and fluoresced in a low pH environment. Developed synthetic bio wet lab skills such as PCR, gel electrophoresis, and cell culturing. Work incorporated into coauthored paper.

PERSONAL PROJECTS (ALL CODE AVAILABLE ON GITHUB)

- **nasapic** (*2020 Spring*) Express.js app that uses Pug.js to render static content and serves NASA's Astronomy Picture of the Day using NASA's APOD API. Deployed at <https://tamjazad-nasapic.glitch.me>.
- **PenaltyKicks** (*2019 Summer*) Command Line Interface based game completely written in Java. It simulates a penalty kick shootout common in world football/soccer tournaments. Standard single player v. computer.

LEADERSHIP & INVOLVEMENT

- **Media Chair, Club Zamana** Columbia University
Largest South Asian cultural club on campus; responsible for all club media. *2019-2020 School Year*
 - Was Organizational Committee Member on E-Board during 2018-2019 School Year.
- **Organizational Committee Member, Columbia Science Review E-Board** Columbia University
Club that spreads science literacy and publishes a science-focused magazine. *2019 Spring Semester*
- **Other Extracurriculars:** Indoor & Outdoor Intramural Soccer Participant, Past NY Road Runners Member.