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: 3.97/4.00. Dean's List All Semesters. CP Davis Scholar, CU Scholars Program.
  - Relevant Coursework: Computational LinAlg, CS Theory, Intro to Prob & Stats, Adv. Programming in C/C++, Data Structures in Java, Discrete Math, Intro to CS in Java, Intro to Computing in Python, Intermediate Macro & Intermediate Micro, Principles of Econ, Multivariable Calc, Physics I/II, Intensive Organic Chem I/II.

Research & Work Experience

- **Research Assistant, Azizi Lab** — Columbia University
  Cancer research lab using genomics, machine learning, and statistical methods. *February 2020 - Present*
- **Research Assistant, Synthetic Biological Systems Lab** — Columbia University
  Assistant in research on engineering bacterial biosensors for cancer tumor detection. *October 2018 - Present*
  - Coauthor on research paper: "Multiplexed biosensors for precision bacteria tropism in vivo." Preprint available on BioRXiv, publication in progress.
  - Completed paid summer internship in the lab through CU's Summer Undergraduate Research Fellowship in 2019.
- **Research Assistant, Klug Lab** — University of Tennessee at Chattanooga
  Computational Bio and Evolutionary Ecology research during high school. *November 2016 - August 2018*
  - Used Wolfram Mathematica to computationally analyze mathematical models that model the evolution of parental care in nature. Writing of coauthored research paper in progress.

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, NY Road Runners Member.

Software Skills

- **Languages, Environments, Frameworks:**
  Proficient: C/C++, Java, Python, HTML/CSS, LATEX.
  Some Experience: Ruby, JavaScript, ReactJS, ExpressJS/NodeJS, GraphQL, MATLAB.
  Tools: Unix/Linux/MacOS, Bash/Zsh, GIT, Mathematica, Jupyter, MongoDB.

Selected Projects

- **LandslideDataGUI** (*2019 Summer*) Refined and enhanced data-entry GUI written in Python created for UT Chattanooga's Geological & Environmental Remote Sensing Lab. The tool is used to make & update an Excel spreadsheet of landslides and their info; creates a new Word document for each data entry and logs data entries to the spreadsheet. Uses tkinter, pandas, docx modules.
- **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; available on GitHub profile.
- **password-generator** (*2019-2020 Winter*) A C++ program that generates scrambled passwords of desired length, and saves the passwords to a .txt file for future reference if desired. Available on GitHub profile.