Saumya Bhandarkar

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA   **May 2024**
Bachelor of Science in Electrical and Computer Engineering

WORK EXPERIENCE

Software QA Summer Intern – Beyond Identity, New York, NY   **June 2021 – August 2021**
- Executed regression and policy testing of password-less authenticator on MacOS and Windows
- Designed and improved **automated tests in Java using Sikuli image-recognition**

Teaching Assistant for CS 15-112 – Carnegie Mellon University   **January 2021 – August 2021**
- Led biweekly recitations on introductory coding in Python, encouraging good code style and pseudocode
- Graded assignments, hosted large and small student group reviews, and proctored quizzes and exams
- **Mentored a group of eight students** for a three-week semester term project, aiding in ideation, algorithm selection, and project planning

Summer Researcher, Dr. Dil Ramanathan's Lab – Kean University, Union, NJ   **July 2019 – August 2019**
- Analyzed five commercially available cannabidiol products using Gas-Chromatography Mass-Spectrometry
- Identified and categorized molecules found in samples, and discovered the presence of a harmful compound

PROJECTS

Interactive Virtual Physics Mechanics Lab   **December 2020**
- Utilized object-oriented programming and physics algorithms in Python to mimic real-life motion in a virtual physics lab environment animated using Tkinter graphics
- Constructed a live graphing mechanism to display changing velocities of objects in the sandbox

RELEVANT COURSEWORK

Fundamentals of Programming and Computer Science	Principles of Imperative Computation (Data Structures)
Introduction to Computer Systems	Concepts of Mathematics
Linear Algebra and Vector Calculus	Introduction to Probability Theory
Introduction to Electrical and Computer Engineering	Introduction to Computer Security*
Signals and Systems*	Structure and Design of Digital Systems*

* Spring 2022 Semester

LEADERSHIP EXPERIENCE

President, Model United Nations, Bridgewater-Raritan High School   **June 2019 – May 2020**
- Led meetings teaching students about parliamentary procedure, current events, and public speaking
- Mentored students for international conferences through weekly coaching meetings
- Managed the Bridgewater-Raritan MUN Home Conference, which **hosted students from five high schools** across New Jersey and Pennsylvania, and served as **Co-Secretary General** and chair to a committee of 25 delegates

TECHNICAL SKILLS

Fluent Languages: Python, C

Other Languages and Skills: MATLAB, Arduino, Git, Java, Jira, SQL