

SADMAN KABIR

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EDUCATION

Boston University

B.S, Computer Engineering.
Concentration in Machine Learning.

Boston, MA
Expected May 2025

The Bronx High School of Science

High School Diploma

New York, NY
Sep 2017 - June 2021

WORK EXPERIENCE

Computer Science Teaching Assistant

Giant Machines (now part of Deloitte Digital), May 2023 - August 2023

- Acted as teaching assistant for Citadel Externs during a three-week program sponsored by Citadel Securities.
- Instructed another 4 weeks for Bank of America Fintech Focus students and another 2 weeks for Mastercard's Girls4Tech technical interview Bootcamp.
- Taught and aided students in the python programming language, web development using HTML, CSS, Flask, MongoDB, and Bootstrap.
- During Mastercard's technical interview bootcamp, fostered good interview etiquette, taught essential algorithms, data structures and CS principles.
- Encouraged collaboration, teamwork, creative thinking and fostered good programming practices in our students.

SKILLS

TECHNICAL SKILLS: C++, C, MATLAB, Python, HTML, CSS, CAD, Verilog, MIPS AL, Machine Learning, Socket programming.

TOOLS: ROS2, OnShape, Xilinx Vivado, MongoDB, Flask, Jinja3, Bootstrap, NumPy, scikit-learn, UNIX, Git.

BEHAVIORAL: Responsibility delegation/management, team communication, time management, teaching ability.

UNIVERSITY PROJECTS

Automated Course Registration Application

Designed and programmed the front-end of an application that registers students for classes in advance.

- Written in Google Dart
- Saves, loads and allows for deletion of user chosen courses.
- Integrated with pure python backend to register users for classes ahead of time.
- GitHub link (for code and DEMO): <https://github.com/corndog-overflow/courseRegProject>

Verilog Number Guessing Game

A two player number guessing game written and designed with Verilog

- Programmed in Verilog
- Developed with Xilinx Vivado and run on FPGA
- Demonstrates proficiency in digital logic fundamentals and Verilog
- GitHub link: https://github.com/corndog-overflow/Verilog_RNG_Game

Pokémon-like, Terminal Videogame.

A Pokémon-like game run in terminal focusing on demonstrating mastery of OOP principles.

- Written in C++
- Utilizes mastery of OOP principles.
- GitHub Link: <https://github.com/corndog-overflow/Pokemon-Challengers-VICTORY-ROAD>

Personal Website

- Programmed and designed a personal website containing information about myself, contact info and my resume.
- Made with HTML, CSS and JavaScript
- URL: <https://corndog-overflow.github.io/>

RELEVANT COURSEWORK

- Machine Learning, Software Engineering, Algorithms and Data Structures, Computer Organization
- Electric Circuits, Digital Logic Design, Linear Algebra, Signals and Systems, Robotics, Statistics.

ACTIVITIES

Boston University Mars Rover Club (Fall 2022 - Present)

Boston, MA

- Member of the Control Systems sub team, focusing on programming robotic arm behavior with ROS2 and Moveit2