SADMAN KABIR

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EDUCATION

Boston University   Boston, MA
B.S, **Computer Engineering**   Expected May 2025

The Bronx High School of Science   New York, NY
High School Diploma   Sep 2017 - June 2021

WORK EXPERIENCE

Computer Science Teaching Assistant
Giant Machines (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
TOOLS: VS Code, CLion, PyCharm, IntelliJ Idea, Emacs, Vim, Ubuntu, OnShape, Xilinx Vivado, Excel, PyMongo, MongoDB, Flask, Jinja3, Bootstrap, Git
LANGUAGES: Fluent in Bengali. Conversational proficiency in Japanese.
BEHAVIORAL: Responsibility delegation/management, team communication, time management, teaching ability.

UNIVERSITY PROJECTS

Pokémon Challengers: VICTORY ROAD
A video game run in terminal focusing on demonstrating master of OOP principles.
- Written in C++
- Utilizes mastery of OOP principles.
- Github Link: https://github.com/corndog-overflow/Pokemon-Challengers-VICTORY-ROAD

Frontend of 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

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

- Calculus I, II, III, Differential Equations
- Physics I, II, Engineering Statics
- Linear Algebra
- Software Engineering, Algorithms and Data Structures
- Electric Circuits, Digital Logic Design

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 Moveit 2

Liquid Fun BU (Spring 2021 - Present)   Boston, MA

- Liquid Fun is BU's Improv Comedy Club!