Siddhartha Bhattacharya

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Objective

An internship opportunity that will enable me to learn and grow from experienced engineers while drawing on the technical knowledge I have accumulated in and out of the classroom.

EDUCATION

Michigan State University, East Lansing MI   **Aug 2021 – Present**

B.S.E. Computer Science; Mathematics Minor

Novi High School, Novi MI   **Sep 2017 – May 2021**

PROJECT

Move Master: Collaborated with three peers to create a exercise form checking program designed to help those who do not have access to personal trainers. Machine learning implemented using TensorFlow BlazePose and written with Typescript and React.

Slope Stat: Developed a ski resort tracking application to allow for bulk mountain analysis including lift and trail statuses, snowfall, and base depth. Implemented using Node.js, GraphQL, Python, and MongoDB.

Stock Monitoring Discord Bot -- Developed a Discord bot using the discord.py API, pandas, and REST APIs like IEX Cloud and Polygon to provide stock monitoring functions such as watchlists, live quotes, and fundamental analysis tools to over 2000 traders.

WORK EXPERIENCE

Undergraduate Learning Assistant (TA)   **Jan 2022 – Present**

ULA for MSU's CSE 231: Introduction to Programming (Python). Responsible for managing and delivering content to 50+ students in a lab section, assisting students during help room hours, and grading.

Construction Laborer at Michigan Highway Contracting   **Jun 2022 – Aug 2022**

Assisted in roadside and highway construction of embankment leveling, seeding, blanketing, and sodding.

TECHNICAL SKILLS

Undergraduate Courses: Algorithm Engineering, Algorithms and Data Structures, Object Oriented Software Development, Computer Systems, Computer Organization and Architecture

Languages/Technologies: C++; C; Python; ARM Assembly; UNIX; Git; HTML; CSS

COMMUNITY INVOLVEMENT

Spartan Hackers (Member)   **Sep 2021 – Present**

Collaborated in small groups to create hackathon projects and helped develop coding workshops.

Boy Scouts (Assistant Senior Patrol Leader)   **March 2014 – July 2021**

Mentored over 40 Scouts in first aid, wilderness survival, and outdoors skills for rank advancements.