

Siddhartha Bhattacharya

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EDUCATION

Michigan State University

Aug 2021 – Present

B.S.E. Computer Science; Mathematics Minor; GPA 3.6

WORK EXPERIENCE

Software Engineer Intern – ZF Group

May 2023 – Aug 2023

Developed remote hardware debugging scripts to interface with SCAM6 front-facing camera used by over 30 engineers within the Advanced Driver Assistance Systems (ADAS) department.

Used Python and PRACTICE to write scripts supporting command-line control over Lauterbach debuggers, Power Supplies, and Power Distribution Units.

Undergraduate Learning Assistant (TA)

Jan 2023 – 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.

PROJECT

Move Master: Collaborated with three peers to create an 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.

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

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.