

Siddhartha Bhattacharya

248-843-7988 | bhatta70@msu.edu | [linkedin.com/in/sid-bhat](https://www.linkedin.com/in/sid-bhat) | github.com/sidb70

EDUCATION

Michigan State University

Bachelor of Science in Computer Science, Minor in Mathematics

East Lansing, MI

Aug. 2021 – Present

EXPERIENCE

Software Engineer Intern

ZF Friedrichshafen

May 2023 – Present

Farmington Hills, MI

- Designed and implemented a test automation framework to streamline black-box testing procedures for vehicle front-facing cameras, resulting in 90% reduction in test execution time from manual testing.
- Developed automation framework using Embedded C and Python to communicate with hardware debuggers and micro controllers.
- Collaborated with integration team to write scripts to facilitate communication between front-facing cameras, Lauterbach debuggers, power supplies, and connected bench hardware

Teaching Assistant

Michigan State University

Jan. 2023 – Present

East Lansing

- Responsible for instructing weekly lab sections of 51 students in introductory Python.
- Provide mentorship and guidance for students during office hours to promote overall development and confidence in programming.

Construction Laborer

Michigan Highway Contracting

May 2022 – Aug. 2022

Livonia, MI

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

PROJECTS

Slope Stat | *GraphQL, Node.js, MongoDB, Python*

Jan. 2023 – Feb. 2023

- Developed a web application for ski resort status tracking
- Leveraged GraphQL and Node.js to efficiently store and query data such as lift and trail status, snowfall, and base depth from hundreds of ski resorts

MoveMaster | *TensorFlow, TypeScript, Next.js, Git*

June 2020 – Present

- Developed a full-stack web application using TypeScript serving a REST API with React as the frontend
- Leveraged machine learning techniques with TensorFlow BlazePose to accurately analyze and correct exercise form in real-time
- Recommended exercises and gave feedback to users on their technique through a video recording and analyzing joint movement

Discord Stock Bot | *pandas, discord.py, IEX Cloud, Polygon API*

May 2019 – Aug. 2020

- Developed a stock and equities monitoring Discord bot using Python and various REST APIs to assist over 2000 traders in their fundamental analysis and market research
- Enabled users to streamline their research by providing personalized watch-lists, live quotes, and balance sheets

TECHNICAL SKILLS

Languages: Python, C/C++, ARM Assembly, Java, JavaScript, HTML/CSS

Frameworks & Libraries: ROS, GraphQL, React, Node.js, MongoDB, pandas, NumPy, Matplotlib

Developer Tools: Git, VS Code, PyCharm, Jupyter, Eclipse