

Alexander Bowler

A self-motivated, curious student interested in cutting-edge engineering fields including the intersection of computer science & biology, robotics, and blockchain technologies

EDUCATION

University of Michigan , Ann Arbor, MI

August 2022 - Anticipated Graduation: December 2025

- 4.0 GPA
- Computer Science Major, ML/AI Focus
- Courses: EECS 280, Math 216, EECS 203; Completed by Summer 2024, EECS 281, Stanford CS229

Stanford Online High School, Stanford, CA

August 2020 - June 2022

- Neuroscience, Computer Architecture

Stanford University, Stanford, CA

June 2021 - August 2021

- Environmental Engineering course in Energy Essentials

PROJECTS

Michigan Robosub Software Team, Ann Arbor, MI

August 2023 - Present

- Developing the object perception and mapping system using ML algorithms

WORK EXPERIENCE

Research Assistant: Microfluidics Lab, Ann Arbor, MI

September 2022 - Present

- Automated bead size detection software for micrometer sized bead generation
- Designed and fabricated microfluidic electroporation devices and presented at a Research Symposium

Tutor: Marin Tutors & Mathnasium, Marin County, CA

January 2021 - August 2022

- Reinforced Pre-Calculus & AP Computer Science concepts to 5 high school clients increasing their understanding
- Developed my own 5-6th grade math curriculum for two 4th grade students using interactive whiteboard problems

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SKILLS

Proficient in Java, C, C++, Python, Assembly, Matlab

Instruction/Teaching Experience

Accomplishments

UC Berkeley Academic Talent Development Program

(2017-2019):

Achieved high marks in courses in Biotechnology, Computer Science, Data Structures and Algorithms

Coursera (2020): Completed course: What is Data Science? from IBM, final grade 91%

Additional

Blockchain/crypto (6 yrs):
Learned about & invested in cryptocurrencies including Bitcoin & Ethereum; Built profitable ETH mining rig

Rock Climbing (10 yrs):
Indoor & outdoor rock climbing including 500 ft. Grade III multi-pitch climb near EL CAP in Yosemite, and Michigan Climbing Club; learned self-reliance, mental control/fear management

Michigan Baja SAE(1 yr):
Worked on manufacturing and maintaining Baja SAE cars