

Albert Chen

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EDUCATION

University of Michigan College of Engineering

Aug. 2024 - May 2028

- Prospective B.S.E. of Computer Engineering

Plymouth High School

Sep. 2020 - Jun. 2024

- GPA: 4.2/4.0 (W)
- National Merit Scholarship Finalist
- NISCA Academic All American Swimmer
- AP Scholar with Distinction

RELATED EXPERIENCE

P-CEP STEM Academy

Sep. 2020 - May 2024

Group Leader

Canton, MI

- Developed a variety of projects using Raspberry Pis, Arduinos, Tensorflow + Keras, CAD Design, 3D Printing, and CNC Machines, including autonomous race cars and assembly lines.
- Programmed a vehicle with Python, C++, OpenCV, and ROS to give live feedback on its current state.
- Produced a problem statement and business plan for a project in order to explain its purpose.
- Solved problems with NVIDIA's CUDA libraries to analyze data, including breast cancer databases and GAN network simulations in order to understand different machine learning frameworks.

P-CEP Lightning Robotics

Sep. 2020 - May 2024

Senior Member

Canton, MI

- Created algorithms with computer vision and LiDAR to determine robot positioning and decision making.
- Analyzed team data through data visualization techniques in order to strategize for competitions.
- Collaborated with both the programming and electrical teams to allow our robots to reach their full potential.

P-CEP CyberPatriot Team

Sep. 2021- May 2024

Captain

Canton, MI

- Directed the Ubuntu Image Challenge to minimize security risks of a weakened image.
- Achieved Platinum Tier in CyberPatriot, ranking in the top 30% of the world.
- Learned to remedy vulnerabilities in a variety of technical aspects, including MySQL and Git.

Canton Township Engineering Division

Sep. 2020 - May 2024

Intern

Canton Township

- Managed sidewalk construction in order to check if flags were compliant with the ADA.
- Communicated with my supervisor to learn about and solve various civil engineering issues.

Lifeguard

Oct. 2022 - Present

Employee

Summit on the Park

- Guaranteed guest safety in the aquatic center and administered first aid when needed.
- Performed routine cleaning and maintenance duties in order to ensure a clean and safe environment.
- Worked with co-workers to diffuse high stress situations to provide the best care to guests.
- Trained new employees as shadows by teaching and practicing job routines with them.

Math Activities

Sep. 2020 - May 2024

- Competed in the Michigan All-Stars Math team at the ARML competition, attaining the High Scorer award.
- Qualified for AIME in multiple years, scoring in the top 2.5% of all AMC 10/12 test takers.
- Oversaw 30 students in the East Middle School math team through group challenges and test reviews, explaining difficult concepts through lecture-style lessons.

VOLUNTEER EXPERIENCE

Plymouth Boys Swim and Dive

Dec. 2020 - May 2024

Captain

Plymouth High School

- Organized swim camps, raising over \$4,000 and promoting water safety to my community.
- Guided the swim team to placing 10th in the state through guided practices and team-building activities.
- Arranged other fundraising events, including a bottle drive and restaurant fundraisers, bringing in \$2,000.