

Albert Cao

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EDUCATION

UNIVERSITY OF MICHIGAN - 3.65 GPA

B.S.E in Computer Science and Engineering

Ann Arbor, MI
Aug 2022 – May 2025

- Coursework: Web Systems, Introduction to Cyber Security, Building Data-Driven Applications, Introduction to Computer Organization, Data Structures and Algorithms, Foundations of Computer Science, Discrete Mathematics, Programming and Introductory Data Structures

NEWPORT SENIOR HIGH SCHOOL - 3.95 GPA

High School Diploma

Bellevue, WA
Sep 2018 – June 2022

- Completed 17 AP Exams including AP Computer Science, AP Calc 1, AP Calc 2, AP Physics 1, AP Physics 2, AP Physics C Mech
- Awarded 3 year AP Scholar with Distinction - average of 3.5 or more on all AP Exams
- PSAT National Merit Scholarship Qualifying Test Commendation Award - Score of 1400+

PROFESSIONAL EXPERIENCE

Mad4Chip

Intern

Sorrento, IT
May 2023 – August 2023

- Created five libraries/drivers for different chips (ADC, DAC, EEPROM, Motor Drivers) for microcontroller classes STM32/ESP32 which were adapted by my supervisor and clients to implement into their own projects
- Developed firmware for microprocessors ESP32/STM32, provided connectivity to the device and enabled transmission of statistical, diagnostic data and remote updates that were also used in projects by supervisor and clients

Nordstrom Rack

Apparel Floor Salesman

Bellevue, WA
April 2022 – June 2022

- Built strong oral communication skills through assisting customers to make a purchase, providing accurate merchandise information and promoting sales events to customers to create an overall enjoyable shopping experience
- Assisted shift managers with opening and closing tasks weekly and trained two new employees

ACTIVITIES

Traders at Michigan

University of Michigan

Ann Arbor, MI
Nov 2022 – Present

- Learned Quantitative Trading problem solving techniques from professionals at notable companies that I used at competitions and interviews
- Participated, competed, and collaborated with teammates in Quantitative Trading competitions
- Taught new members core concepts in SWE and Quantitative Trading that were applied to interviews

Competitive Swimming

Co-Captain of Newport High School Boys Swim and Dive

Bellevue, WA
Sept 2016 - Present

Seattle Metropolitan Aquatic Club

Michigan Club Swimming

- Placed 1st in 500 freestyle for Pacific Northwest Swimming 14 and under championship meet for respective age group (2018)
- Nominated Most-Inspirational swimmer for my leadership and sportsmanship
- Led the Newport Boys Swim and Dive team to place 2nd at the 2022 state meet
- Annually qualified and competed in multiple local, state, and regional championship level meets
- Qualified and competed in the College Club Swimming 2023 national meet

PROJECTS

Academic Projects

University of Michigan

Ann Arbor, MI
Sept 2022 – Present

- Programming and Introductory Data Structures:** Computer Vision; Euchre Card Game; Back-End Web Dev; Machine Learning
- Data Structures and Algorithms:** Complex BFS/DFS Puzzle Solver; Implementation of Sorting, Binary, and Pairing Priority Queues; Simple Bank Simulator; Traveling Salesman Problem Simulator
- Introduction to Computer Organization:** Assembler, Simulator, and Assembly-Language Multiplication; Advanced Assembler and Linker; Pipeline Datapath Simulator; Data and Memory Cache Simulator
- Web Systems:** Templated Static Side Site Generator; Server-side Dynamic Pages; Client-side Dynamic Pages; MapReduce; Search Engine
- Intro to Cyber Security:** Length Extension/Bleichenbacher; Sql Injection/XSS/Cross-site Request Forgery; Networking with Wireshark; App Security with Buffer Overflow; Forensics Project

CODING LANGUAGES

C++ / C / Java / Python / JavaScript / HTML / CSS