

# MICHAEL CHEN

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## EDUCATION

### University of Michigan Class of 2020

B.S.E. Computer Science | College of Engineering  
Minor in Business | Ross School of Business  
GPA: 3.79/4.00

Ann Arbor, Michigan  
September 2016 – May 2020

*Notable Courses:* Data Structures & Algorithms, Intro to Operating Systems, Information Retrieval,  
Web Systems, Database Management Systems, Intro to Computer Security, Intro to AI

### Shanghai Jiaotong University

UMich-SJTU Joint Institute Summer Study Abroad

Shanghai, China  
May – August 2017

## EXPERIENCE

### Ford Motor Company

Controls and Automated Systems Intern

Palo Alto, California  
May – August 2019

- Developed a new C++ software framework for a Ford Advanced Driver Assist System
- Integrated and latency benchmarked key framework modules including perception, mapping, localization, routing, and driving policy
- Worked with LiDAR sensors, and benchmarked the vision algorithms to have a latency faster than 10Hz
- Hacked and pitched to judges a full end-to-end vehicle system for Ford's intern hackathon event in 2 days

### Ford Motor Company

Driver Assisted Technologies (DAT) Intern

Dearborn, Michigan  
May – August 2018

- Built shell script that lowered Ford's L4 Virtual Driver System install times on AV platforms by 90%
- Applied human-centered design towards creating a potential new F-150 DAT feature, and surveyed ~750 internal employees about pain points and solutions regarding it
- Technology scouted over 20 startups from the Plug and Play Detroit Summit and/or Ford Techstars

## SKILLS

*Programming:* **Python** (P), **C++** (P), C (C), HTML (C), SQL (C), shell script (C), JavaScript (F), Java (F)

*Frameworks:* ROS 1+2, Docker, Flask, React

*Software:* LaTeX, Git, Matlab, Microsoft Office

*Languages:* English (native), Mandarin

*\*Note: (P) = Proficient, (C) = Competent, (F) = Familiar*

## EXTRACURRICULAR

### UMich Engineering Student Government

Senator

Ann Arbor, Michigan  
Fall 2016 – Fall 2018

- One of 32 members that represented the undergraduate engineering student body
- Voted on policy changes, resolutions, funding requests, and officer elections
- Elected for Winter 2017 - Winter 2018

Funding Committee Member

- Voted to approve funding requests from ~10 student engineering organizations per month
- Helped write a new set up funding/spending guidelines for ESG to reference

### University of Michigan

Engineering 100 Student Mentor

Ann Arbor, Michigan  
Winter 2017

- Peer mentored 2 student design groups in the Underwater Vehicles section
- Coached the student teams 2 hours per week in designing, building, and testing bathyspheres/ROVs

## ACHIEVEMENTS/AWARDS

### Michigan Ross Sanger Leadership Center

Competed in the 24-hour Crisis Challenge event

Ann Arbor, Michigan  
March 2019

- Finished **1<sup>st</sup> place** out of 30+ student teams | <https://sanger.umich.edu/news-4-16-19-lcc-top-moments/>

University of Michigan Dean's List

Fall 2016, Winter 2017, Fall 2017, Winter 2018, Winter 2019

William C. Ford Jr. Scholarship

Fall 2017

Boy Scouts of America Eagle Scout

November 2015