Alex Hsia

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EDUCATION
University of Michigan – Ann Arbor, August 2018 - May 2021 (Expected)
Bachelor of Science in Computer Science Engineering (within three years)
GPA: 3.84/4.0

PROJECT/WORK EXPERIENCE
University of Michigan - Ann Arbor, MI, Sept. 2019 – May 2020
Undergraduate Researcher
- Analyzed internet network traffic collected through a distributed network telescope to better identify, track and prevent cyber security events
- Developed R Shiny Programs and utilized GCP's (Google Cloud Platform) Big Query platform to create an interactive statistical dashboard to visualize captured port scanners

Cooper Standard Automotive, Livonia, MI, May 2019 - Aug. 2019
Data Engineering Intern
- Developed Python scripts and SQL database queries in the Ignition SCADA (supervisory control and data acquisition) platform to automate data collection processes
- Integrated IoT devices and software for production process control
- Leveraged modeling and data science tools to optimize plant operations

Merit Network, Inc. Ann Arbor, MI, Sept. 2018 - April 2019
Research Assistant
- Developed Python scripts to analyze and visualize PCAP (packet captured file) stored network telescope data from Merit's darknet to gain insights into cyber risks
- Presented findings at NCUR (the National Conference for Undergraduate Research) in Atlanta and MRADS (Michigan Research and Discovery Scholars) Research Symposium

The Vanguard Group, Malvern, PA, May 2020-Aug 2020
Application Development Intern
- Will join the College to Corporate Program

VOLUNTEER/LEADERSHIP EXPERIENCE
Michigan Research and Discovery Scholars (MRADS), Ann Arbor, MI, Sept. 2019 – May 2020
Peer Advisor
- Provided on-going mentoring and leadership to ten freshmen students, including weekly one on one sessions at MRADS,

Student Organizations Funding Committee (SOFC), Ann Arbor, MI, Sept. 2018 - April 2019
Committee Member
- Involved in weekly review and decision making regarding the appropriation of $180,000 in funds

Rotaract etc. Ann Arbor, MI, 2019 – Present
Volunteer
- Participated in various community service projects organized by Rotaract and the Cooper Standard Foundation

SKILLS
Technical: C++, Python, R, SQL, Soft skills: teamwork, presentation, debate, project management,
Foreign Language: Chinese, German (basic)

HONORS
College of Engineering's Dean's Honors List and University of Michigan Honors List (GPA>3.5) every semester
James B. Angell Scholar ("A" record for >2 semesters)