

NISHANT KOTHARI

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EDUCATION	UNIVERSITY OF MICHIGAN Stephen M. Ross School of Business Bachelor of Business Administration, May 2022 <ul style="list-style-type: none">• GPA: 3.528/4.0• University Honors: Fall 2018, Winter 2019, Fall 2020, Winter 2021 College of Engineering Bachelor of Science in Engineering, May 2022 <ul style="list-style-type: none">• GPA: 3.528/4.0• Dean's Honor List: Fall 2018, Winter 2019• Major: Computer Science HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY August 2019 <ul style="list-style-type: none">• International Scholars Abroad Program	Ann Arbor, MI Hong Kong
EXPERIENCE	UNIVERSITY OF MICHIGAN MARS ROVER TEAM Perception Engineer <ul style="list-style-type: none">• Trained a Convolutional Neural Network in order to create a more robust fiducial marker detection system than the default OpenCV method• Constructed a diverse dataset of 1000 fiducial marker images to improve the model's performance when the marker was obstructed by another object or was incomplete	Ann Arbor, MI
2020-Present		
2019-Present	UNIVERSITY OF MICHIGAN DEPARTMENT OF COMPUTER SCIENCE Undergraduate Teaching Assistant <ul style="list-style-type: none">• Leading a weekly lab session to help students in EECS 280 (Programming and Elementary Data Structures) apply the knowledge from lecture to coding problems• Holding office hours to coach students, help debug their projects, and review materials for exams• Working with professors and other teaching assistants to develop midterm and final exams	Ann Arbor, MI
2021	AMAZON Software Development Engineering Intern <ul style="list-style-type: none">• Designed an optimization for Amazon Cloud based video calls between Alexa devices to address lag caused by the server side compositing of video streams.• Implemented this optimization from end-to-end using Android Studio on the device side and Typescript on the server side• Improved user experience in Amazon Cloud based video calls by decreasing the latency in rendering the user's Picture-in-Picture (PIP).	Seattle, WA
2020	UNIVERSITY OF MICHIGAN Programmer I / Full Stack Developer <ul style="list-style-type: none">• Building endpoints for an online exam server used to administer exams to 2000+ University of Michigan students per semester, allowing faculty to adapt courses to the COVID-19 pandemic• Developing tools which allow faculty to review student usage data and remotely access student view of the exam to assist them in real time and to automate the deployment of randomized exams• Designing client side React application to provide an exam taking interface including lightweight code editor. This editor enables students to write code in C++ style format and to view questions and associated reference material side-by-side	Ann Arbor, MI
ADDITIONAL	<ul style="list-style-type: none">• Languages: C++, Python, Java, TypeScript & Javascript, Swift• Technologies: PyTorch, OpenCV, React, Android Studio, Git, Docker, CMake, Jupyter Notebooks• Relevant Coursework: Introduction to Autonomous Robotics, Computer Vision, Computer Security, Operating Systems, Advanced Analytics for Management Consulting, Natural Language Processing (In-Progress), Autonomous Robotics Design Experience (In-Progress)• Personal Website: https://nishukothari.github.io/• GitHub: github.com/nishukothari	