

Kenneth (Kira) H. Chan

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Education:

Ph.D. - Computer Science and Engineering

Michigan State University, East Lansing, Michigan

Expected May 2025 - GPA: 4.0/4.0

M.S. - Computer Science and Engineering

Michigan State University, East Lansing, Michigan

May 2021 - GPA: 4.0/4.0

B.S. - Computer Science and Engineering

Michigan State University Honors College, East Lansing, Michigan

May 2019 - GPA: 3.73/4.0

Work Experience:

Graduate Researcher, 2021 - Current

Michigan State University - East Lansing, MI

Developed techniques to address / improve the assurance and robustness of DNNs.

Applied technologies from a number of disciplines (e.g., reinforcement learning, evolutionary computing, game theory) to address research problems.

Graduate Assistant, 2019 - Current

Michigan State University - East Lansing, MI

Courses: CSE435 - Software Engineering (Lead TA), CSE477 - Web Development, CSE476 - Mobile App Development, CSE260 - Discrete Mathematics.

Creating assignments, projects, and exams designed to transform concepts into practical application.

Presenting guest lectures for machine learning, deep neural networks, and computer security.

Undergraduate Learning Assistant, 2019

Michigan State University - East Lansing, MI

Course: CSE 335 - Object Oriented Software Development.

Assist professor in teaching by creating projects and explaining object oriented concepts.

Software Engineer, 2018

Volkswagen - Auburn Hills, MI

Won best overall Design Day award: [Auto-Owners Exposition Award](#).

Designing and developing a demo application which will emulate their new connected car services.

Strategically promote VW's app by introducing and familiarizing potential customers with the system.

Technologies utilized: Android development (Kotlin), Firebase, Eventbus and OAuth.

Software Engineer Intern, Summer 2015

GeoNexus Technologies - Ann Arbor, MI

Designed and developed a prototype application to visualize work-orders on a map.

Used Android Studio (Java) to create an application using pair programming and agile development.

Technologies used: Unit testing, threads, Git, and SQLite Database.

Student Cook Supervisor, 2016 - 2018

The Gallery, Michigan State University

Test Kitchen Intern, 2017 - 2018

Corporate Kitchen, Michigan State University

Organizing, leading and supervising groups of 10-15 student employees at multiple venues.

Training employees to provide them with knowledge that can help exceed their role.

Honors and Awards:

Dr. Delia Koo Global Student Scholarship / Chinese Student Endowment - 2023

\$5,000

SME Education Foundation Scholarship Reviewer - 2022

College of Eng. Summer Research Fellowship (Michigan State University)

\$7,000 (2020), \$7,600 (2023)

Blue Oval STEM Scholarship (Ford Motor Company) - 2015-2019

\$2,500 - 4 Years

Skills:

Languages: Python, Java, C/C++, HTML/CSS, Shell / Bash, PHP

Tools: Pytorch, Tensorflow, Latex, DNN models (RetinaNet, YoloV5, Faster-RCNN, ResNet20, MobileNet, etc.)

Systems: Linux / Unix, Windows