

# Yi Lin Sim

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## EDUCATION

**University of Michigan Ann Arbor, US** | Bachelor's Degree

*Sep 2019 - May 2023*

- Major: Computer Science | Minor: Business
- GPA: 4.0/4.0 | William J. Branstrom Freshman Prize (Top 5% in College of Literature Science and the Arts)
- Data Structures and Algorithms (Enrolled) | Introductory Data Structures in C++ (A+) | Discrete Math (A+) | Linear Algebra (A)

## WORK EXPERIENCE

**Softinn Solutions** | Software Developer Intern

*June 2020 - Aug 2020*

- Assisted product team in fast-paced local startup through remote work using ASP.Net, MSSQL, AngularJS and TypeScript
- Integrated features such as room location sort and customization of document headers into hotel management software
- Worked closely with client to complete CMS-integrated custom hotel website for increasing hotel direct booking
- Created video and written guides for navigating company's codebase and workflow, benefiting future interns and new hires

**Michigan Medicine** | Part-Time Web Developer

*Oct 2019 - Apr 2020*

- Reached out to over 60k alumni by designing, building and sending HTML emails through MailChimp marketing campaigns
- Automated monthly productivity reporting using Python script with Asana API, reducing time taken by 80%
- Built custom mobile-responsive page for new Michigan Medicine website using JavaScript, Bootstrap CSS and HTML

## PROJECTS

**Ciao!** | MHacks Hackathon | Wolfram Award for Top 30 Hacks

*Aug 2020*

- Worked remotely in a team of 4 to develop and deploy a skills exchange platform, powered by Tensorflow recommender system
- Processed data retrieved from Firebase database and machine learning output for Flask web application back-end
- Integrated Firebase user authentication system and developed user profile settings page complete with CRUD functionalities

**Music Quiz Website**

*Nov 2019*

- Worked in a team of 4 to develop and deploy a Flask music quiz site, with features such as customizable quizzes and leaderboard
- Focused on front end such as mobile responsiveness, form validation and dynamic background using JavaScript, CSS and HTML

## ACTIVITIES

**UM::Autonomy Student Organization** | Business Lead and AI Member

*Sep 2019 - Present*

- Manage organization's budget, seek sponsorship opportunities, and lead marketing campaigns
- Rebuilt team website using Jekyll for better branding and maintained up-to-date member information
- Researched deep learning techniques for object detection; labelled and trained data using YOLOv3 on Colab Notebook

**Girls Who Code College Loop** | Outreach Co-chair

*May 2020 - Present*

- Plan coding workshops for local Ann Arbor high schools, adapting bi-annual coding workshop into a virtual format
- Guided high schoolers through creating a simple web page and hosting it with GitHub pages during coding workshop

**Volunteering** | Computer Science Outreach Programs

*Nov 2019 - June 2020*

- Digitize mentoring program; FEMMES Machine Learning workshop; PyGame workshop; Ann Arbor Hour of Code

**Anderson Junior College Harmonica Band** | President

*May 2017 - May 2018*

- Increased performance quality and recognition of band, leading to an improvement in member count from 7 to 22 members
- Organized band concert and oversaw band activities (public performances, orientation camp, community service project)

## AWARDS

**Pan Asia Alumni Scholarship** | University of Michigan

*Sep 2019*

- One of two outstanding undergraduate students from Asia to receive scholarship funded by university alumni

**ASEAN Pre-University Scholarship** | Singapore

*Feb 2017*

- Full merit scholarship, including hostel accommodation and allowance, to study in Singapore for 2 years

## ONLINE COURSES

- M001: MongoDB Basics (MongoDB University)
- JP Morgan Software Dev Virtual Experience (InsideSherpa)
- Andrew Ng's Machine Learning course (Coursera)
- Google Cloud Platform Fundamentals (Coursera)
- Machine Learning with Python Track (DataCamp)

## ADDITIONAL

**Technical skills:** C++, Python (Flask), C# (ASP.Net), JavaScript (React, AngularJS), Web Dev (HTML, CSS, Bootstrap, Jekyll, Drupal 8), Git  
**Languages:** English, Malay, Chinese (spoken)  
**Interests:** Dance, Music (Harmonica, Piano), Astronomy