

# David Hanan Li

Ann Arbor, MI

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## EDUCATION

**University of Michigan, Ann Arbor MI**

*Bachelor of Science in Computer Science*

*Bachelor of Science in Data Science*

**Georgia Institute of Technology, Atlanta GA**

*Master of Science in Computer Science, Systems Specialization*

*Graduated 2020*

*GPA: 3.823*

*August 2020 - Present*

## EXPERIENCE

**Microsoft, Seattle WA**

Software Engineer Intern

May 2019 - August 2019

- Responsible for performance optimization in Bing Ads Accounts and Billing Team
- Lowered service's garbage collection active time by 20%, decreased service's commit size RAM by 25%
- Proposed and analyzed new software architectures for service for optimization
- Analyzed data to find inefficiencies and estimate performance improvements

## Intel, Shanghai China

Software Engineer Intern

July 2018 - August 2018

- Supported Continuous Integration(CI) and Automation team at Intel Zizhu site, China
- Upgraded internal CI web application tool
- Implemented Load-balancing and containerization solutions to web application
- Deployed application service in containers on different servers

**SAP Labs, Shanghai China**

*IoT Development Intern*

*April 2017 - August 2017*

- Supported SAP Global Track and Trace team at SAP Labs, Shanghai China
- Assisted in developing an IoT kitchenware demo, using Raspberry Pi as virtual endpoints
- Conducted research and created a demo on the use of internal IoT platform for upcoming project
- Proposed project to use motion sensors to analyze motion of dancers to help improve novice dancers

## RESEARCH

**Dynamic Project Management Lab, Ann Arbor MI**

*Research Assistant*

*September 2019 - June 2020*

- Research Assistant for Digital Twins for Construction Site project
- Built Unity simulation for Digital Twin real time visualization of robots in construction site
- Implemented RL algorithm for Digital Twin robots in Unity
- Designed and constructed end-to-end solution on Azure for IoT and cloud application for project

### Miniature Tether Electrodynamics Experiment (MiTEE), Ann Arbor MI

*Assistant Lead of Research Group*

*January 2019 – August 2020*

- Assistant lead for Command and Data Handling subsystem of MiTEE Cube Satellite research group
- Proposed and led team to build custom real time visualization dashboard for satellite's data
- Developed and tested custom file system for cube satellite
- Led sub team for MiTEE's public website, constructed web architecture on AWS

## PROJECTS

## I'm a Chopstick, Ann Arbor MI

### Video Game

*October 2019 - Present*

- Developed indie couch coop game “I’m a Chopstick” with several friends, currently still in development
- Designed software architecture for the game in Unity
- Won 2<sup>nd</sup> in University of Michigan Video Game showcase
- Proposed and built core game mechanics and gameplay philosophy

## SKILLS

**Platforms:** Windows, Mac OS, Linux

**Programming Languages:** C++, C, C#, HTML, CSS, Python, R

**Frameworks:** Unity, .NET, pyTorch, Flask, Django, React

## ACTIVITIES

Guitarist for BlueShift band at University of Michigan

October 2017- April 2020