# Curriculum Vitar/Resume | Yuqi Li | MS in Computer Science and Engineering | UM ID: #03010509

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## EDUCATION

**B.S.E in Electrical and Computer Engineering** **Sept 2018-Aug2022(expected)**

Shanghai Jiao Tong University

University of Michigan – Shanghai Jiao Tong University Joint Institute

GPA: 3.52/4.00 Rank: 88/245

**B.S in Computer Science** **Sept 2020-April2022(expected)**

University of Michigan, Ann Arbor, College of LSA

GPA:3.925/4.0

## SELECTED COURSE PROJECTS

**Chocolate LEGO Buildings**

***Course: VG100*** *Introduction to Engineering, Team Leader* **Sept 2018-Dec 2018**

- Analyze the structure of expected building and Design each LEGO pieces and Draw the 3D images of them using SolidWorks
- Print the SolidWorks designs by 3D-printer using PVC
- Use the PVC molds to get chocolate LEGO pieces and assemble them into the final chocolate LEGO buildings (in our project is an Eiffel Tower)

**Implement LC-2K Assembler and Linker**

***Course: EECS370*** *Computer Organization* **Jan 2021-April 2021**

- Build LC-2K Assembler, Linker and behavioral simulator based on instruction set.
- Design assembly-language function
- Simulate the LC-2K Pipelined process by C++

**Relational Database Design**

***Course: EECS484*** *Database Management System, Team Leader* **April 2021-Jun 2018**

- Design the ER diagram to store information for the fictional social media platform Fakebook
- Create a database management system (use MongoDB) based on ER diagram
- Apply different query operations on database.
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**Prateek's Puppy Problem**

***Course: EECS445*** *Intro to Machine Learning,* **Oct 2021-Nov 2021**

- Implement Python function to standardize the images
- Build the Convolutional Neural Networks to identify dog images by breeds
- Apply Grad-CAM to visualize what the CNN has learned
- Apply Transfer Learning and Data Augmentation to improve the performance

## RESEARCH EXPERIENCE

**Directed Research**

*Security and Privacy Research Group – University of Michigan* **Sept2021-Jan2022**

- Work with Professor Kevin Fu and his phD student Yan Long
- Design and improve CRNN used to recognize the contents in reflected images of 26 letters
- Discuss the factors in the reflected images that may affect the ML model's performance

## AWARDS

- Outstanding Student Scholarship of SJTU-JI **Dec2020**

## TECHNICAL SKILLS

**Programming:** C, C++, Verilog, JavaScript, Python, Matlab

**Others:** Linux (Ubuntu), Windows OS, SoildWorks

## LANGUAGE PROFICIENCY

**TOFEL iBT: 96(R27+L23+S19+W27)**

## EXTRA-CURRICLAR ACTIVITIES

- Volunteer teacher in Yousuo Elementary School, Yunnan, China **Dec2019- Jan2020**
- Vice Minister of Student Academic research department **April2019- Aug2020**
- Volunteer with 826 Michigan **Jan2022 – now**

## REFERENCES

**Kevin Fu, Associate Professor**
Department of Electrical Engineering and Computer Science
University of Michigan
kevinfu@umich.edu