Ziyang Ji

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**OBJECTIVES**

To obtain a full-time job related to Software, Hardware, or Artificial Intelligence starting at Sept 2021

**EDUCATION**

**University of Michigan**, Ann Arbor, MI *April 2021*

* + - * *Bachelor of Science in Engineering* (Honors)*:* Computer Science, Minor in Economics GPA: 3.74/4.0
* Courses: Data Structures and Algorithms, Machine Learning, Programming Languages, Advanced Operating System, Embedded System Design

**WORK EXPERIENCE**

**Jottful**, Ann Arbor, MI *Nov 2018 – May 2019*

*Business Consultant Intern (Part-time)*

* Established a full-scale financial model projecting capital expenditures and burn rates to ensure seed-stage budget fluency
* Generated predictive Excel model and analyzed 500+ companies across 15+ industries and 40K+ potential client
* Tested UI for client-facing web platform and built a customer acquisition channel, increasing customer size by 300%

**Ciel Peer Tutoring Company**, Taiyuan, China *May 2017 – Sept 2017*

*Founder, Chairman & CEO*

* Fundraised $4,000 and started Ciel Company to foster an interactive studying environment outside traditional classrooms
* Employed 18 tutors, negotiated with stakeholders and promoted team cohesiveness, tripling client number in 13 days
* Achieved $10,000 monthly revenue after 2 months and gained 100% satisfaction from students in 2017 summer program

**PROJECTS**

**Colorize Black & White Images**, Ann Arbor, MI *July 2019 – Present*

* Constructed Convolutional Neural Network(CNN) to recover historical black & white images into colorful pictures
* Trained several learning models on large datasets (ImageNet) with different parameter sets to minimize loss functions
* Created two versions of CNN composed of ReLU and BatchNorm layers, and InceptionResNetV2 and “Fusion Layers”

**Running App (Android)**, Ann Arbor, MI *July 2019 – Present*

* Performed thorough market research on popular running apps and identified market needs for new functionality
* Designed and developed an Android running app that keeps track of running history and analyzes running data
* Integrating weather API, real-time geolocation, map direction route, pace and distance calculator, and user feed in app

**Change in Interpersonal Relationships after Financial Crisis**, Ann Arbor, MI *Jan 2018 – Present*

*Research Assistant with Dr. Daniel Romero, University of Michigan, School of Information*

* Utilized Python to propose a statistical model to identify financial disturbance based on data from Yahoo Finance
* Classified and visualized past 5 years’ Tweets (hundreds GB data) according to people’s sentiments
* Developing a social network among people and evaluated its dynamic change in and after financial disturbances

**Synchronization in Complex Systems**, Troy, NY *Dec**2017 – Aug 2018*

*Research Assistant with Dr. Jianxi Gao, Rensselaer Polytechnic Institute*

* Devised a new method to enhance robustness of multi-agent system after examining factors influencing its topology
* Co-authored manuscript “Improving the Synchronization of a Self-Propelled Agent System via a Weighted Model”

**SKILLS & ACTIVITIES**

**Computer:** C/C++, Python (TensorFlow, Keras & Scikit-learn), Java, JavaScript, Scheme, Prolog, HTML, CSS, bash

**Platform/Software:** Linux, AWS, Git/GitHub, Matlab, Android Studio, CAD, AnyLogic, Tableau, MS Office, LabView

**Certificates**: Bloomberg Market Concepts Certification, Lean Six Sigma Green Belt

**Languages**: English, Mandarin, Cantonese

**Activities:** Olive Tree Ministry (Co-founder), Michigan Hackers, Economics Investment Committee