Ziyang Ji

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OBJECTIVES

To obtain 2020 co-op or summer internship related to Computer, Data or Engineering

EDUCATION

University of Michigan, Ann Arbor, MI   *April 2021*
- *Bachelor of Science in Engineering* (Honors)*:* Computer Engineering, Minor in Economics   GPA: 3.77/4.0
- Courses: Data Structures and Algorithms, Deep Learning, Web System, Programming Languages, Computer Org

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, MATLAB, XML, HTML, CSS, bash
Platform/Software: Linux, AWS, Git/GitHub, 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