Michael (Zhenhang) He

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Education

University of Michigan, Ann Arbor, MI   Graduating in 2022

Bachelor of Science in Computer Science & Bachelor of Science in Economics (Cumulative GPA :3.89/4.00)

 Awards and Honors:
- University of Michigan Makeathon 2020 | First Place | Product Design and Development Competition
- HackUIowa 2021| Second-Place Winner Overall
- Bain & Company Employer Challenge 2020 | Top Ten | Team Case Competition
- IEEE Eta Kappa Nu Member | Honor Engineering Society
- Honors Program Student and Honors Sophomore Award Candidate

Employment

Pinterest   May 2021 - July 2021

Software Engineering Intern
- Planned and executed the table migration inside the ads Database using Vitess System to reduce the high latency and error occurrence caused by high transaction rate to improve the partner experience on the pinterest ads platform
- Simplified the migration process by customizing Vitess Code to fit Pinterest data type, contributed to the Vitess Open Source community, and outlined the best practice on company wiki documentation for future table migration

Procter & Gamble   May 2020 - April 2021

Project Management Intern
- Collaborated with business experts to identify redundancies, proposed and led 4 innovation projects to automate and remove steps in SAP S&D to reduce monthly cost by $20-30k, time spent by 20 hours weekly and enhance performance by 5-15%
- Spearheaded Customer Fund Management data migration project from legacy database into Azure Cloud and designed a new proof-of-concept workflow using Knime, ADF and PowerBI to improve efficiency by 20%, reduce monthly cost by $30k
- Planned and executed regression and user acceptance testing for code synchronization from 7000+ regional changes and 5 medium size projects into North America SAP System. Saved 200 hours of individual changes by managing defects
- Redesigned the IT SAP Training Module with HR using HTML and SCORM to align with new government regulations and applied employee survey result to make improvements saving a total cost of $8k in expense and 10 hours per new employee

Shared Mobility Application   Apr. 2020 - Dec. 2020

Research Assistant
- Leading a team of 3 to work with Professor Masoud to enhance road infrastructure networks efficiency by up to 10% through maximize ride sharing services capacity and gaining exposure on Multi-modal Transportation and P2P RideSharing infrastructure
- Produced a proof-of-concept ridesharing alternative Android application with Kotlin, XML, Google OAuth 2.0, and Open Source Routing Machine (OSRM) APIs for map routing and display in preparation for real-world trial on campus

WiseTech Global: CargoWise One   July 2019 - Aug. 2019

Software Engineering Intern
- Developed Frontend components to linked to Transport logistics data using Winform and C# to meet the customer feature requests and added i18n localization to frontend, thereby reducing 15 hours of required customer support per week
- Identified inefficiencies within the current training module, redesigned it into a 40 hour project modeled after computer science projects from university classes; expand documentation for future employees, saving up to 20 hours weekly per new employee

Projects

Posterboard
- Posterboard is a platform for creating and sharing quote posters. Second-Place Winner overall (out of 92 projects) HackUIowa 2021
- Through Utilizing Azure Text Analysis, Unsplash and Google Custom Search, Posterboard automates the process of poster-creation.

BreakOut Application
- Created an application that aims to provide virtual study environments to boost work efficiency as a part of the group project
- Developed a client-side application through React Native library and native module
- Developing a RESTful API hosted on AWS for chatroom and real-life status update functions through Express.js and Socket.io

Skills and Other Experiences

Technical Language- Experienced with C++, C#, Python, and Javascript, Proficient in Java, HTML, CSS, SQL

Technology: MongoDB, Node.js, Express.js, Socket.io, Bootstrap, React, React Native, Hadoop (learning)

Languages: English(Native) and Chinese (Native)

Other Experiences - Studied Buddhism in a monastery in rural China for the summer of 2018