

Tianqi Zhang (Matthew)

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EDUCATION

- **University of Michigan, Ann Arbor**
Bachelor of Science in Computer Science; GPA: 3.5

Ann Arbor, MI
Aug. 2017 – Jan. 2022

EXPERIENCE

- **Open Water Venture Capital**
Software Engineer Intern
Menlo Park, CA
Jun 2020 - Sept 2020
 - **OffChance Mobile App:** Part of the mobile app development team where we designed and implemented a MERN mobile app. As of September 2020, OffChance mobile app is undergoing beta testing on TestFlight.
 - **RESTful API:** Utilized IBM Cloud Functions on IBM Cloud Platform to deploy back-end RESTful API. Created custom Docker containers for each function to include external Node.JS modules.
 - **Data Storage:** Set up MongoDB for data storage and utilized IBM Cloud Object Storage for static files.
 - **Authentication:** Users are required to sign up with a valid and working phone and email. Integrated Twilio verify with phone SMS and SendGrid email for authentication.
 - **Notifications:** Service for sending email, SMS and push notifications. Utilized Twilio Cloud Functions and Sendgrid automation for marketing campaigns.
 - **Payments:** Integrated PayPal and Stripe API for in-app purchases and implemented a sharing/referral system to encourage sign-up.
- **Star Charge, Wanbang New Energy Investment Group**
Data Engineer Intern
Jiangsu, China
May 2019 - Aug 2019
 - **Database Management:** Designed and set up database schema in MySQL for August campaign. Handled backup of documents on MongoDB while server room underwent maintenance. SQL querying for data analysis.
 - **Data Analysis:** Pulled and analyzed data from database to determine amount of new and retained users in each province. Analysis of competitors' revenue to identify provinces where we lacked market share.
 - **Campaign:** Achieved peak daily users of 60,000 with total revenue exceeding RMB1,000,000 by the end of August.
- **University of Michigan College of Engineering**
EECS484 Database Management Systems Course Instructional Aide
Ann Arbor, MI
Aug 2020 - Present
 - **Autograder Management:** Maintenance and testing of autograding software for projects. Holds weekly virtual office hours to provide students with personalized feedback and advice on autograded work.
 - **Exam Question Bank:** Program to generate a set of random questions and solutions for each student. Each question in a set contains different values/data to minimize academic dishonesty during remote teaching.
 - **Course Logistics:** Assisted in helping late-add and auditing students enroll in course resources.
- **SOCR Big Data and Predictive Analytics Team**
Software Engineer
Ann Arbor, MI
Aug 2019 - Present
 - **SOCR Analytical Toolbox:** Web platform for in browser interactive data analysis and visualization. Integrated Tensorflow to build browser embedded data visualizer.

PROJECTS

- **Quant Trading:** Quantitative analysis with TA-Lib on Yahoo Finance stock data to determine stocks to purchase/sell
- **Spotify-Netease Music Importer:** Uses Spotify API and Netease API to import playlists between the two platforms
- **Tournament Generator:** Webapp that handles sign-up, prelims and knockout stages for tournaments hosted by my break-dance club. React frontend with Spring Boot backend deployed to Heroku.
- **Amazon Alexa BlueBus Skill:** Amazon Alexa app that plans commute for Umich students. Developed with AWS Lambda and Google Maps API and received first place award at 2019 Umich Makeathon competition.

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, C++, SQL, Golang, Java, C, Swift, HTML, CSS, Matlab
- **Technologies:** AWS, IBM Cloud, Node.JS, React, React Native, Django, Flask, Jinja, MongoDB, Express