

Omer Khan

<http://omerkhan.us>
okhan320@gmail.com | 248.978.9469

EDUCATION

WAYNE STATE UNIVERSITY

BA IN COMPUTER SCIENCE

MINOR IN ECONOMICS

Sep 2014 - May 2018 | Detroit, MI

Cum. GPA: 3.82 / 4.00

Major GPA: 3.92 / 4.0

SKILLS

PROGRAMMING

Proficient

C++ • Python • Java • Unix

Familiar

Swift • JavaScript • HTML / CSS • SQL

ELECTRONIC TRADING

Familiar

FIX • MiFID • Client Connectivity

LINKS

Github:// [omerkhan3](#)

LinkedIn:// [omerkhan3](#)

COURSEWORK

- Programming and Problem Solving
- Discrete Mathematics
- Computer Science 1 (C++)
- Data Structures and Algorithms
- Intro to Web Development
- Information System Design (SQL)
- Software Engineering
- Introduction to Python

AWARDS / HONORS

- Presidential Scholarship Recipient
- Dean's List (Fall '15 | Winter '15, '16)
- DECA State Finalist - 2014
- MHacks 8 Participant - 2016
- ThinkChicago Civic Tech Challenge
1st Place Winner - 2016
- Stephen P. Hepler Endowed
Scholarship Recipient - 2017

INTERESTS

Basketball, Scuba Diving, Horseback
Riding, Hiking, Traveling (30+ countries)

EMPLOYMENT

GOMETRO | TECHNICAL PRODUCT MANAGER

Jan 2020 - May 2020 | Cape Town, South Africa

- Developed product roadmaps, technical architecture, and business requirements for a mobile platform that utilizes USSD survey responses and location data from 1000 testers to analyze water point effectiveness in Nigeria.
- Generated recommendation on third-party movement tracking providers by conducting a comparative analysis utilizing Python and Unix to post-process and visualize API trip data in KML format.
- Created the GoMetro API in Flask and PostgreSQL with usage documentation to process location coordinates and generate USSD survey questions based on response history.

J.P. MORGAN | SOFTWARE ENGINEER - ELECTRONIC TRADING

July 2018 - Dec 2019 | New York, NY

- Implemented multiple MiFID regulatory risk checks and quantitative limit checks in C++ for clients leveraging extensive reference data and market positions.
- Developed test drivers that measure order execution latency and provide statistical analysis on the results using Python. Used these findings to find bottlenecks and optimize execution speed of C++ codebase.
- Managed full release cycles and provided production support during North American trading hours for client connectivity and data integrity issues using Python, C++, and Bash.

BENZINGA | PRODUCT MANAGEMENT INTERN

Feb 2018 - Apr 2018 | Detroit, MI

- Developed product specifications for a new user onboarding campaign on Benzinga Pro to improve retention rate and help users get acclimated to important functionality on the platform.

J.P. MORGAN | SOFTWARE ENGINEERING INTERN

June 2017 - Aug 2017 | New York, NY

- Developed a server-side web service in Java using the Spring framework and SQL for a trading dashboard in Athena which provides risk analytics to the Public Finance trading desk.
- Used client-side JavaScript to parse JSON data coming from the web service (RESTful / Web Socket) to appropriately update widgets in real-time, resulting in 8 completed screens within the new dashboard.

PROJECTS

CARPOOL | SWIFT, NODE.JS, POSTGRES, FIREBASE

- Developed an iOS ride-sharing application to help users with similar commutes match on routine trips such as school and work.
- Incorporated geospatial querying with PostGIS and Google Maps Distance Matrix API to find best matches for users, and leveraged Braintree's API to process payments between riders and drivers.