

KEVIN ZHENG

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EDUCATION

UNIVERSITY OF MICHIGAN

B.S.E. in Computer Science, Minor in Mathematics (3.88/4.0 GPA)

Ann Arbor, MI

September 2016 — April 2019

SHANGHAI JIAO TONG UNIVERSITY

13-week cultural immersion and engineering coursework abroad

Shanghai, China

May 2017 — August 2017

Selected Coursework: Object Oriented and Advanced Programming · Intro to Operating Systems · Computer Architecture · Foundations of Computer Science · Data Structures & Algorithms · Data Mining · Probability & Statistics · Linear Algebra · Intro to Combinatorics · Real Analysis

EXPERIENCE

Correlation One

Technical Consultant

New York, NY

December 2017 — Present

- Engineer datasets for collegiate data science competitions. Execute several datathons as technical lead
- Build bots to test upcoming AI programming challenge (**Python**)
- Lead DevOps/Cloud topic research for integration into candidate testing platform

Amazon, Inc.

Software Development Engineering Intern

Seattle, WA

May 2018 — August 2018

- Developed service to validate customer tax registration numbers, taking ownership of plaintext critical data handling responsibilities from primary platform (**Java, Guice, Lombok**)
- Designed and implemented encrypted customer blacklist with DynamoDB backend. Minimized database calls via caching. Minimized data custodian calls via intermediate keys (**AWS KMS, Lambda, SNS, SQS**)

Digital Innovation Greenhouse

Data Science Intern

Ann Arbor, MI

September 2017 — April 2018

- Develop tool to process time series data into animated scatter plots. Use tool to analyze grade distribution trends between college courses (**Python, Matplotlib, Pandas**)
- Investigate grade inflation by modeling predicted earned grades based on admissions testing scores
- Analyzed networks between co-enrollments and academic traffic using force-directed visualization methods

Michigan Engineering Consulting Club

Project Manager

Ann Arbor, MI

September 2016 — Present

- Lead team of 5 consultants to advise client's penetration strategy into international talent recruiting market
- Lead team of 4 consultants to investigate implementation of a university educational application for high school students, recommending research-backed improvements to user experience
- Research connected vehicle solutions for tech startup, recommending features for traffic prototype model
- Audit spending patterns at the University of Michigan Health System, providing recommendations to result in a yearly projected savings of over **\$500,000** in patient attendant spending

PROJECTS

Airbnb Superhost Analysis *Citadel Datathon at University of Michigan - 1st Place Winner*

- Analyzed the quality of service between Airbnb hosts vs. "superhosts," i.e. hosts with listings >99% of the population, winning \$20,000 prize. Data wrangling in **Pandas**, visualizations in **Tableau**.

Embarc Together *Web App - J.P. Morgan Code for Good*

- Develop interactive platform for students to manage a virtual journal for their field trips through their local community (**Python, Flask, AWS, SQL**)

Status *OSX Productivity Extension*

- An OSX productivity extension to interact with Google Calendar from the desktop (**Lua, Python**)

Glance *Personal News Aggregator - MHacks*

- Implemented web scraper to extract most salient keywords from company wikipedia pages for real-time news updates on users' stock investments (**Python, Google NLP, EventRegistry, Twilio APIs**)

Texify *Course LaTeX Template Generator*

- Extracts key features from homework assignment PDFs to seamlessly generate a LaTeX template (**Python**)

ADDITIONAL

- Photographer at the Michigan Daily. Avid volunteer photographer, covering multiple campus student events
- Gave a seminar on data analysis techniques to over 200 students at the **2016 FIRST Championships**
- Proficient in C++, Java, Python, R, Matlab, SQL, LaTeX, Javascript, HTML/CSS