KEVIN ZHENG

820 Oxford Rd., Ann Arbor MI 48104
(734) 620-1652 • kevzheng@umich.edu • kevzheng.com

EDUCATION

UNIVERSITY OF MICHIGAN   Ann Arbor, MI
B.S.E. in Computer Science, Minor in Mathematics (3.8/4.0 GPA)   *September 2016 — April 2020*

Coursework: Intro to Operating Systems · Object Oriented and Advanced C++ Programming · Data Structures & Algorithms · Intro to Comp. Architecture · Statistics · Combinatorics · Real Analysis

EXPERIENCE

Jump Trading   Chicago, IL
Incoming Software Engineer Intern   *June 2019 — August 2019*

Correlation One   New York, NY
Software Engineer Intern   *March 2019 — June 2019*
- Developed backend, REST APIs, and Python/R autograder for an online data science challenge **(Python, Django)**
- Engineered highly scalable submission worker. Used **Docker** to isolate user code. Designed backend communication to cleanly handle graceful shutdown, error reporting, retries. Used **(Kubernetes)** to scale deployments.
- Set up unit, integration tests, integrated into **Travis CI** pipeline. Parallelized tests, cutting deploy times by **40%**

Facebook   Menlo Park, CA
Software Engineer Intern   *January 2019 — March 2019*
- Integrated a shot boundary detection model into Video OCR, its first production use-case. **(C++)**
- Created a shot boundary dataset from thousands of Facebook videos, then conducted experiments to find optimal (based on coverage) frame sampling parameters for shot-boundary integrated Video OCR **(Python)**
- Migrated Video OCR signal storage, saving up to **500GB/day** in cheaper storage costs **(Hack/PHP)**

Amazon.com   Seattle, WA
Software Development Engineering Intern   *May 2018 — August 2018*
- Designed and implemented encrypted customer blacklist. Minimized database calls via caching. Minimized data custodian calls via intermediate keys **(AWS DynamoDB, Lambda, KMS, SNS, SQS)**
- Abstracted customer registration number validation and encryption into a service, decoupling sensitive data handling responsibilities from main platform **(Java, Guice, Lombok)**

Michigan Engineering Consulting Club   Ann Arbor, MI
Project Manager   *January 2017 — September 2018*
- Led team of 5 consultants to advise client's penetration strategy into international talent recruiting market
- Led team of 4 consultants to advise implementation of university tool for high school students
- Audited spending at local hospital, resulting in yearly savings of over **$500,000** in patient attendant spending

PROJECTS

Airbnb Superhost Analysis *Citadel Datathon at the University of Michigan - 1st Place Winner*
- Won $20,000 prize in team of 4 at a data science challenge to analyze Airbnb rating data. **(Python)**

Hammerspoon Suite *OSX Productivity Extensions*
- Productivity extensions on OSX and a desktop schedule tracker for Google Calendar **(Lua, Python)**

Glance *Personal News Aggregator*
- Developed application to extract most salient keywords from company wikipedia pages for real-time news updates on users' stock investments **(Python, Selenium, Google NLP, EventRegistry, Twilio APIs)**

ADDITIONAL

- Avid volunteer photographer, covering multiple campus student events. See photos: kevzheng.com.
- Presented a seminar on data analytics in Tableau at the 2016 FIRST World Championships
- C++, Python, Java, R, Matlab, Javascript, Lua, SQL, LaTeX, Javascript, HTML/CSS
- Kubernetes, Travis CI, Docker, Git, Vim, Google Cloud/AWS