

education

PRINCETON UNIVERSITY *Princeton, NJ (May 2019)*

B.S.E. COMPUTER SCIENCE • GPA: 3.47

Relevant Coursework: Algorithms and Data Structures; Information Security; Computational Reasoning; Systems; Circuit Logic Design*Honors:* Rewriting the Code Fellow / Ambassador 2017 – present; Yext Grace Hopper Scholarship 2017; 1st place in the International Eye Photo Contest 2017; Mary W. George Research Conference 2016; NCWIT Aspirations in Computing Affiliate Runner-Up 2015**GOOGLE** *June 2018 – August 2018*

SOFTWARE ENGINEERING INTERN

- Expanded major features and data functionalities for Google Analytics, including the horizontal numeric axis class, dynamic rendering of charts, support for multiple series, and visual descriptors for the publicly-facing Ads platform.
- Designed and implemented the scatter plot visualization, one of seven primary data representations on Google Analytics. Deployed on the Advanced Analytics (Vero) interface and developed with Javascript, D3, and Angular.
- Improved the efficiency of data rendering and reusability of modules by refactoring code within the internal visualizations library.
- Rebuilt user interactions for Vero by implementing Delaunay triangulation on sets of two-dimensional data points. Introduced Voronoi tessellations, partitioning visualization data into equidistant spatial regions to improve the efficiency of data selection.

TIMESCALEDDB *May 2017 – August 2017*

SOFTWARE ENGINEERING / DATA SCIENCE INTERN

- Authored an analysis/tutorial on TimescaleDB functionalities and PostgreSQL queries using 1200+ cryptocurrency datasets. Developed charts for analysis using ggplot2 in R. Reached #1 on HackerNews, 130k+ views, and 1k+ recommends on Medium.
- Researched and developed an aggregate PostgreSQL function in C for Timescale's scalable, time-series database extension. Currently deployed in Timescale's consumer-facing extension serving clients such as Bloomberg, Comcast, and Ubisoft.

PRINCETON SOCIAL NEUROSCIENCE LAB *September 2016 – May 2017*

SOFTWARE ENGINEER / RESEARCH ASSISTANT

- Wrote and implemented Python scripts using Python's Beautiful Soup package to conduct web scraping of social media platforms, track trends in human sharing, and analyze behaviors of online personas.
- Oversaw fMRI scans for neuroimaging of participants in a behavioral study analyzing the effects of social isolation on humans.

projects and involvements

- YAKSTACK**
- Built front-end and back-end modules to support anonymous posting and voting, coin exchange, blockchain authentication, and namespace registration on a decentralized iteration of YikYak (an anonymous social platform).
 - Implemented on the blockchain via Blockstack's decentralized internet, developed with Vue.js and Firebase.

- COMET**
- Designed UI and front-end timing modules for a native productivity app on Android and iOS devices.
 - Developed with Javascript, React Native, and Firebase.

DESIGN / PHOTOGRAPHY Designer for the *Student Design Agency* • Freelancer for student organizations (e.g. *Old NasSoul*, *BodyHype*, *Community Service Initiative Committee*) • Layout Editor for *Princeton Traveler* • Photographer for the *Daily Princetonian*

ENTREPRENEURSHIP CLUB Officer for *HackPrinceton's* Experience team • Co-director of the Careers team • Officer for the Design team • Professional Development Lead Associate for *The Princeton Startup Immersion Program*

BACKPACKING Orientation leader for *Princeton Outdoor Action (OA)* **DANCING** Member of *Princeton Raqs Belly Dance Troupe*

skills

PROGRAMMING SKILLS Proficient in Java and Python; Familiar with C, C++, Javascript, D3, Angular, PostgreSQL, Matlab, R

VISUAL DESIGN SKILLS Illustrator, Photoshop, InDesign, Autodesk Inventor 3D CAD, Wireframing & UI Prototyping