

Education

University of California, Berkeley

B.S. / M.S. Electrical Engineering and Computer Science

- » CS186 Introduction to Database Systems TA
- » RISELab Database Group Researcher advised by Professor Joseph Hellerstein
- » M.S. Thesis: *Supporting Asynchronous Interactive Visualization for Exploratory Data Analysis*

August 2013 – May 2017

B.S. GPA: 3.896

M.S. GPA: 3.7

Industry Experience

Dropbox

Software Engineer, Payments Team

- » Developed backend systems using Python to process billions of \$ in global customer transactions
- » Designed and implemented optimizations for credit card transaction processing, increasing authorization rates, reducing customer churn, and yielding millions in annual recurring revenue
- » Developed data pipelines with MySQL/Hive for analyzing revenue and financial reconciliation

August 2017 – Present

Seattle, WA

Dropbox

Software Engineer, Monetization Team

- » Implemented geo-fencing scheme for supporting new payment methods in European countries
- » Redesigned subscription page using React.js, Redux, and Typescript to compose a faster, more responsive payment experience that supports multiple business SKU's and easier experimentation

May 2016 – August 2016

San Francisco, CA

Uber

Software Engineer, Payments Team

- » Implemented a service to automatically generate historical trip receipts with specific information for legal purposes using a React.js front-end, Python back-end, and Amazon S3 for file storage
- » Designed a data tracking system to record all rider payment transactions in a SQL database so the finance team can analyze trends in payment authorization success rates by merchant account
- » Developed a service to automate the creation and management of rider fees in an internal globally-replicated data store that is used by Uber's worldwide billing and invoice services

May 2015 – July 2015

San Francisco, CA

Munchery

Software Engineer

- » Integrated HipChat and Twilio API's with Rails back-end for customer care members and drivers to easily communicate delivery issues or changes through both online chat and text messaging
- » Developed new corporate account functionality using Rails and MySQL allowing businesses to sign up with Munchery, order group delivery, manage employee credit, and track office expenses

June 2014 – May 2015

San Francisco, CA

Research Experience

Data Visualization Research

Student Researcher advised by Professor Joseph Hellerstein

- » Researched data visualization methods to provide an easier interface for exploratory data analysis
- » Adapted the idea of animation tweening to resultsets in a query interface to animate data transformations, and evaluated the effectiveness of tweening methods through user studies

January 2016 – May 2017

Berkeley, CA

AMPLab

Student Researcher advised by Professor Eugene Wu

- » Researched animated graphical perception by designing a series of online visual experiments
- » Developed experiments using JavaScript and D3.js to render data visualizations, Amazon Mechanical Turk to gather study participants, and PostgreSQL to store and analyze results

January 2015 – May 2015

Berkeley, CA

Technical Skills

Advanced: Python, JavaScript, TypeScript, React.js, Redux, Java, SQL, HTML, CSS

Basic: Node.js, Ruby on Rails, Meteor, D3.js, PHP, MongoDB, OpenCV, Git, Bash