

# Tiffany Han

Bay Area, CA | hantiffany@gmail.com  
tiffanyhan.github.io | LinkedIn | GitHub

## EXPERIENCE

### LYTE | SOFTWARE ENGINEER II

2018-present | San Francisco, CA

- Lead Engineer for external integrations which generated \$13M+ in revenue in 2019.
- Migrated our fulfillment monolith over to modular microservices, making our entire fulfillment system easier to debug, extend, and reason about.
- Completely overhauled our pricing architecture and database schema, which allowed us to programmatically calculate complex price breakdowns based on dynamic fee structures.
- Utilized our Celery servers and Redis messaging broker to implement otherwise blocking tasks as async background jobs.
- Implemented Magic Link authentication (a la Slack), which increased conversion rates and is now the default path to authenticate for all users.
- Debugged everything from application code and performance issues, to race conditions between distinct processes, to server breakdowns, to unexpected system integration problems that occurred between multiple nodes.

### PREFIXY | SOFTWARE ENGINEER

2017 | Remote

- Prefixy is a highly scalable, query optimized hosted prefix search service for building autocomplete suggestions.
  - Conducted a thorough data structures and algorithms analysis to return suggestions from memory in  $O(1)$  time.
  - Utilized asynchronous, batched Redis calls in order to provide non-blocking writes.
  - Implemented multi-tenancy by utilizing JSON web tokens, Redis namespacing, and MongoDB collections.
  - Designed and implemented the system architecture which includes two Node/Express servers, Redis, MongoDB, a CLI, and a JavaScript client.
  - Presented a talk about how we built Prefixy, entitled "Building Prefix Search As A Service", at various Bay Area tech meet ups.

### DAILY BRUIN | FULL-STACK WEB DEVELOPER

2016 - 2017 | Los Angeles, CA

- Contributed to the codebase for bruinwalk.com, a data-driven reviews site widely used amongst UCLA students.
  - Wrote the models and views for a new textbooks feature.

### UDACITY | SESSION LEAD & TEAM GUIDE

2015 - 2016 | Santa Monica, CA

- Led and facilitated weekly in-person sessions where Udacity students in the greater Los Angeles area met to learn about various web technologies together.
- Graded and provided thoughtful code reviews of student projects, providing actionable feedback on how students can improve their code.

## SKILLS

### LANGUAGES

Python • Ruby • Node.js • SQL • HTML • CSS

### FRAMEWORKS

Django • Rails • Express • React • Redux

### DATA STORES

PostgreSQL • Redis • MongoDB

### ETC.

HTTP • REST • Git and GitHub • ssh • Unix shell • Heroku • AWS

## EDUCATION

### UCLA | BA PHILOSOPHY

2015 - 2017 | Los Angeles, CA • Summa cum laude. GPA: 3.96

Studied analytic philosophy with an emphasis on Philosophy of Language, while devoting my time on the side to writing various programs in Python and Ruby.