

# Tiffany Han

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## WORK EXPERIENCE

### PARABOL | SENIOR BACKEND ENGINEER => NODE.JS, TYPESCRIPT

Jun 2020 - present | Remote

- Led our DB migration from RethinkDB to PostgreSQL with zero downtime in production.
- Single-handedly implemented an in-house video integration prototype using low level API provided by mediasoup SFU library.
- Helped us reach industry standard security compliance by automating backups, encrypting production data at rest, protecting staging and development environments, etc.
- Increased system observability by adding server side source maps.
- Refactored and extended our remove user functionality to comply with GDPR privacy laws.
- Introduced a cacheing layer to our integrations to mitigate hitting 3rd party API rate limits.
- Drafted 3x proposals which were all adopted: [#1] Established an engineering support rotation to quickly resolve bugs and incidents; [#2] Gave engineers autonomy to choose their own sprint issues; [#3] Introduced QA testing into our PR process.

### LYTE | BACKEND ENGINEER => PYTHON, DJANGO

Apr 2018 - Mar 2020 | 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.
- Rewrote our data modeling and app logic to calculate prices, which allowed us to display line item receipts based on dynamic fee structures.
- Implemented otherwise blocking tasks as async background jobs, using our Celery servers and Redis messaging broker.
- Added Magic Link (password-less) authentication, which increased conversion rates and is now the default path to authenticate for all users.
- Interviewed and evaluated engineers of all levels while we 3X'ed our team from 7-20+ members in 1 year.
- Debugged everything from app code and performance issues, to race conditions between distinct processes, to server breakdowns, to unexpected system integration problems occurring between multiple nodes.

### PREFIXY | CO-CREATOR => NODE.JS, REDIS

Jun 2017 - Apr 2018 | Remote

- Built a highly scalable, query optimized hosted prefix search service for building autocomplete suggestions.

### DAILY BRUIN | PYTHON ENGINEER => PYTHON, DJANGO

Oct 2016 - Jun 2017 | Los Angeles, CA

- Worked on bruinwalk.com, a data-driven reviews site widely used amongst UCLA students.

### UDACITY | SESSION FACILITATOR => PYTHON, JAVASCRIPT

2015 - 2016 | Santa Monica, CA

- Facilitated in-person sessions where Udacity students in LA learnt about various web technologies together.

## SUMMARY

Product and infrastructure focused software engineer with expertise in data modeling, distributed systems, and high level architecture. Language and framework agnostic programmer who has worked in both open offices and fully remote companies. Comfortable taking end-to-end ownership of projects despite vague requirements and rapidly changing business objectives.

## ACHIEVEMENTS

### SPEAKING

Spoke at SFNode, 42 Silicon Valley, and Berkeley Javascript Dojo.

### WRITING

Author of various technical articles, including "Building Prefixy" and "How We Built Prefixy".

## SKILLS

### LANGUAGES

Node.js • Typescript • SQL • Python • Ruby

### FRAMEWORKS

GraphQL • Express • Django • Rails

### DATA STORES

PostgreSQL • Redis • MongoDB

### ETC

git • ssh • unix • vim • vscode

### PLATFORM

Docker • AWS • GCP

## EDUCATION

### UCLA

#### BA PHILOSOPHY

Los Angeles, CA

Summa cum laude • GPA: 3.96

Studied analytic philosophy with an emphasis on Philosophy of Language, while spending nights and weekends on writing various programs in Python and Ruby.