

Tiffany Han

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WORK EXPERIENCE

PARABOL | SENIOR BACKEND ENGINEER

Jun 2020 - present | Remote

- Added PostgreSQL to our stack and created reusable patterns and functions to facilitate our eventual total migration of all production data from RethinkDB to PostgreSQL with zero downtime.
- Single-handedly implemented a prototype for an in-house video integration 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, and by uncovering and fixing a bug in which all errors originating from our GraphQL execution service were failing to send to our Sentry monitoring system.
- Drafted a proposal which was adopted to establish a weekly engineering support rotation to quickly triage, prioritize, and resolve urgent bugs and support requests.
- Drafted another proposal which was adopted to allow engineers to choose their own sprint issues, which facilitated increased knowledge transfer and incentivized teamwork over individual achievement.

LYTE | BACKEND ENGINEER

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.
- Completely overhauled our data modeling for pricing, 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 | TECHNICAL COFOUNDER

Jun 2017 - Apr 2018 | Remote

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

DAILY BRUIN | FULL-STACK ENGINEER

Oct 2016 - Jun 2017 | Los Angeles, CA

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

UDACITY | SESSION FACILITATOR

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.

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 • React • Redux • Relay

DATA STORES

PostgreSQL • Redis • MongoDB
• RethinkDB

ETC

git • ssh • unix • vim • vscode

PLATFORM

Docker • AWS • Heroku

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.