

# JAKE TETON-LANDIS

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## EXPERIENCE

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### Notion Labs, Inc

March 2019 - Present

*Software Engineer*

*San Francisco, CA & Remote*

Building solutions with code and people.

More details: [jake.tl/work/notion](https://jake.tl/work/notion) Notable blog post: [notion.so/blog/data-model-behind-notion](https://notion.so/blog/data-model-behind-notion)

- Touched many parts of Notion’s stack, including memcached drivers, rewriting the Android app, taming contentEditable, and improving data durability.
- Wrote our engineering proposal process and recorded hours of engineer training videos.
- Currently focused on web infrastructure: keeping our complex client-side codebase fast and our developers productive as we scale up the engineering organization.

### Airbnb

September 2014 - November 2018

*Software Engineer*

*San Francisco, CA*

- *Service Orchestration*: Worked with team of senior engineers on Airbnb’s next-generation service platform, based on Kubernetes. Reduced service creation time from 2 weeks to 30 minutes, and enabled Airbnb’s migration to service-oriented architecture.
  - Adjusted critical service discovery and proxy systems to allow service migrations from EC2 to Kubernetes.
  - Built new extensible tools for project and configuration boilerplate templating, deployment, and operations.
  - Created a zero-config documentation system, surfacing markdown docs from each service’s repository in a centralized UI.
- *Developer Tools*: Worked on small, engineer-only teams to improve developer productivity.
  - Primary author of the CLI powering Airbnb’s developer environment, which managed file syncing, repo clones, dev env provisioning for 200+ services, and more.
  - Migrated 350 users running the entire Airbnb stack from on-laptop VMs to dedicated EC2 instances without data loss.
  - Mentored new team members; scoped tasks and projects, ran planning sessions.
- *Product*: Built features for the Airbnb.com website in a fast-paced team environment, working closely with product managers and designers.
  - Introduced ReactJS into Airbnb’s core library bundle, then used it to rebuild the homepage search experience.
  - Pushed migration from Backbone, Coffeescript, and “Rails includes” to React, ES2015, and CommonJS.

### Student Affairs Information Technologies, UC Berkeley

April 2013 - August 2014

*Senior Programmer*

*Berkeley, CA*

- Maintained systems in Python and Perl that manage Internet access to over 10,000 residents in UC Berkeley’s housing.
- Provided technical leadership for a team of nine programmers.

## EDUCATION

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### University of California, Berkeley

2011 - 2014

Major: Computer Science

## PERSONAL PROJECTS AND ACTIVITIES

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### Gauss

Winter 2022

*macOS native stable diffusion app*

[github.com/justjake/Gauss](https://github.com/justjake/Gauss)

- Built reactive, conversational UI around Apple’s Stable Diffusion ML models.
- Leveraged Swift Concurrency to maintain UI performance under CPU load.

### quickjs-emsripten

2020 - 2022

*open-source library with 750+ stars*

[jake.tl/projects/quickjs-emsripten](https://jake.tl/projects/quickjs-emsripten)

- Javascript/Typescript/C/WebAssembly wrapper for [QuickJS](#), a modern Javascript interpreter written in C by Fabrice Bellard.
- Safely evaluate untrusted Javascript, up to ES2020. Create and manipulate values inside the QuickJS runtime, and expose host functions to the QuickJS runtime.
- Call asynchronous host functions synchronously from within the interpreter, built with [asyncify](#).
- Used by [Hoppscotch](#) (API devtool with 48.9k stars) and [Decentraland](#) (virtual world) for secure user scripting.

### BERKE1337

2013, 2014

*UC Berkeley Cybersecurity team member*

[berke1337.berkeley.edu](https://berke1337.berkeley.edu)

- Placed 1st at the 2014 [Western Regional Collegiate Cyber Defense Competition](#) and 5th nationally (95th percentile of teams)

### teeveed (Ruby, Java)

Winter 2013

*voice-controlled media center*

[jake.tl/projects/teeveed](https://jake.tl/projects/teeveed)

- Search for and play media files with natural language voice input via a web interface.
- Indexer service stores media metadata in a PostgreSQL database for tri-gram text matching.
- Tested and deployed on a Linux server, an OSX media center computer, and a Windows workstation.

### j3 (Go)

Summer 2013

*window management tool*

[github.com/justjake/j3](https://github.com/justjake/j3)

- Adds window splitting and seam-based window resizing to any X11 window manager.
- Directly interfaces with X11 using XGB, the Go language XCB bindings.
- Uses Go concurrency primitives to maintain a responsive user interface, even over slow SSH connections.