Jacob J. Lee

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WORK EXPERIENCE:

Autocode, *Co-Founder and CTO*　　　　　　　　　　　　　　　　　　January 2022-Present
Autocode, *Co-Founder and Chief Architect*　　　　　　　　　　November 2016-January 2022
- Built hosting platform, real-time collaborative editor, and standard library of APIs with autocomplete
  - **600k+ developers**, peak of **21k+ MAU** spending a cumulative **800+ hours/day** writing JS in-editor
  - Routed and ran **120m+ user API requests/day** using AWS Lambda
  - Primary use-cases: Discord + Twitch bots supporting online communities, webhook handlers for Stripe, Shopify, etc., other API integrations with video games e.g., Halo, Roblox, Minecraft, Lost Ark
  - **80%+ of users self-classified as "technical, but not a developer"**
- Managed and provided technical leadership for the engineering team
- Designed and scaled a Discord bot hosting system maintaining **150k+ active websocket connections**
- Invented a federated auth system allowing access to 3rd party APIs with a single credential (patent-pending)
- Performed 24-hour primary or backup on-call devops for all systems
- Supported and moderated a vibrant Discord community of **39k+ developers**
- Owned relationships with partners and vendors like Discord, AWS, Datadog, Cloudflare, and Let's Encrypt
- Sponsored, provided mentorship for, and judged **20+ hackathons** for college students and professionals
- Assisted with fundraising (**$11m+ total**), hiring, and HR processes, spoke at conferences, wrote content, handled abuse & DOS attacks, rented A/V equipment, paid utilities, took out trash - whatever necessary!

Google, *Software Engineer, Google Photos Web*　　　　　　　　August 2015-November 2016
- Helped get the right photos to the right people by building intuitive sharing features
- Created a smooth commenting experience within shared albums and photos
- Added many other contributions to app with **300m+ MAU** as of 2016, **1b+ MAU** currently

OPEN SOURCE CONTRIBUTIONS:

Nodal　　　　　　　　　　　　　　　　　　　　　　https://github.com/keithwhor/nodal
- Rails-like Node.js API framework including powerful ORM and migrations

FunctionScript　　　　　　　　　　　　　　　　https://github.com/acode/functionscript
- Language and specification turning JavaScript functions into typed HTTP APIs
- Includes type-checking, error handling, example HTTP request translation/routing layer

Autocode CLI　　　　　　　　　　　　　　　　　　　https://github.com/acode/cli
- Command line tools for local development, testing, and deployment to the Autocode platform

TECHNICAL SKILLS:
- Node.js, PostgreSQL, Vue.js (spoke at the inaugural VueConf in 2016)
- AWS ecosystem including Lambda, DynamoDB, Elasticache, Aurora, Elastic Beanstalk, Kinesis
- "Margarine": vanilla JS, component-based frontend used in editor (https://github.com/acode/copenhagen)

Other projects include: computationally creating and analyzing phylogenies of mycobacteriophage genomes, generating cryptographic-quality randomness from ambient noise for use in PRNG seeds

EDUCATION:

Princeton University, Princeton, NJ　　　　　　　　　　　　　　　　　　　June 2015
　A.B. in Computer Science, Cum Laude

OTHER EXPERIENCES:

Princeton Varsity Squash　　　　　　　　　　　　　　　　　　　　　　2011-2015
- 2012 College Squash Association National Champion