Linus Lee

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I spend a lot of time on technical side projects, which people have **visited or installed over 1.5M times** to date. A full list of the **100+ projects is at thesephist.com/projects**. Many are also open source on GitHub at github.com/thesephist.

🚀 Notable personal projects

Ink programming language and interpreter *dotink.co*

- A new functional language designed and built from scratch, including an interpreter written in Go and a self-hosting, optimizing compiler to JavaScript
- Lexical scanner and recursive descent parser in Go, static analyzer and code generator in Ink itself. Self-hosting syntax highlighter and code formatter
- 15k lines of Ink code running in public across many projects today

Torus JavaScript UI framework *github.com/thesephist/torus*

- *D*eclarative UI framework for JavaScript inspired by React and lit-html, with a novel API design
- Implements a fast virtual DOM and custom tokenizers for subsets of HTML and SCSS
- Running in production with 1M+ visits to date

Traceur path tracer / 3D renderer *github.com/thesephist/traceur*

- Path tracer written in Ink (above) and JavaScript
- Renders spheres, background lighting, soft shadows, refraction, reflection, a camera with 6DOF, focus blur. The Ink implementation also contains a BMP image format encoder.

💼 Working experience

Ideaflow First Round-backed knowledge tools company *Summer 2020*

- Working independently, designed and implemented a browser extension to annotate text on static and dynamic webpages against a remote database of substring matches.

Repl.it A16Z-backed devtools startup *Summer 2019*

- Implemented a Git and GitHub integration with Repl.it's container-based online IDE working in React/Redux, Next.js, HTML/CSS and communicating with protobufs to a Go backend
- Proposed and implemented an IDE-wide keyboard shortcut system with a pluggable interface

Spensa Agronomics company acquired in 2018 *June 2016 - March 2018*

- Worked full stack in a Django and Backbone.js application delivering data-driven predictive insights to farm operators and advisors from a variety of data sources
- Reduced app load time by 50-75%, memory footprint by up to 90% through performance optimizations, custom framework rewrites, and integration of new web platform features
- Built and maintained front-end build pipeline and testing framework of the company's core web product

🎓 Education

University of California Berkeley. B.A. Computer Science, planned summer 2022 graduation. GPA: 3.7

Partner, Dorm Room Fund (student run venture fund backed by First Round Capital)
Director, Cal Hacks (collegiate hackathon and idea accelerator program)
Accel Scholar

Technical skills

JavaScript, React, TypeScript, Go, Python, Django, Ruby on Rails, Node.js, SQL, WebSockets,