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KARTHIK VISWANATHAN

PROFILE Fluent in full-stack web development and skilled with systems/infrastructure. Interested in teaching programming and solving meaningful technical problems.

EDUCATION Bachelor's in CS from Stanford University; Terman Award winner; 4.0 GPA

EXPERIENCE/PROJECTS

Affinity <<https://affinity.co/>>: Head of engineering at Affinity, a startup founded by Joe Lonsdale, leading a team of 10 engineers. Built a production Kubernetes infrastructure, wrote an IMAP syncer/consumer architecture to process millions of emails, and optimized SQL queries and front-end performance. Used Ruby, PostgreSQL, React, and Node.js.

Teaching <<http://callbackjs.me/>>: Taught CS42, a well-rated JavaScript course at Stanford University focused on creating practical web applications, for 3 years (6 quarters). Material includes syntax, semantics, callbacks, DOM, events, AJAX, Node.js, Express, MongoDB, and prototypes/inheritance. See <<http://goo.gl/naINjW>>.

Stripe <<https://stripe.com/>>: Worked at Stripe on the operations team. Built a distributed, fault-tolerant cron scheduler on top of etcd, a key-value store similar to Zookeeper. Also created Stripe Shop <<https://shop.stripe.com/>>, a marketplace for Stripe t-shirts, in an effort to dogfood their API.

Legit Teams <<https://legitteams.com/>>: Created Legit Teams, a private git repository hosting service. Made top 10 on Hacker News, garnering ~300 signups on launch. Used Python/Django, Git, Vagrant, and Puppet.

Nodefront <<https://github.com/karthikv/nodefront>>: Wrote Nodefront, a command-line utility that speeds up front-end development. Nodefront acts as a static site generator, library fetcher, and auto-refreshing local server. 250+ stars on GitHub.

Timestamp <<https://gettimestamp.com/>>: Created Timestamp, a service that helps schedule meetings/events. Used Ruby/Sinatra, SQL, and a custom JavaScript MVC framework. Connects with Google Calendar.

Scoryst: Developed Scoryst, an efficient grading and analytics platform for problem sets and exams. Used by over 10 computer science classes and 1000 students at Stanford. Utilized Python, Django, Go, SQL, and S3.

Steer the Beat <<http://steerthebeat.com>>: Developed Steer the Beat, a Node.js-powered music application. Provides intelligent music recommendations based on ratings and lets groups listen together by merging individual taste profiles. Top 7 finalist in AngelHack Summer 2012. Used Node.js, Redis, and Socket.IO.

Mozilla <<https://www.mozilla.org/>>: Worked at Mozilla on the web development team. Built Napkin, a rapid web prototyping tool to create mockups that can be shared and exported to code. 1000 sign-ups on launch day. Used Node.js, Redis, Backbone, Mocha/Should.js <<https://github.com/mozilla/napkin>>.

AWARDS

Stanford Terman Award: Given to the top 5% of seniors in the School of Engineering.

Stanford Presidential Award: Awarded for academic excellence to the top 60 freshman in a class.

USACO Gold Division: Qualified to gold division in the USA Computing Olympiad, a national algorithmic programming competition. Ranked in the top 30 of the nation's best high school algorithmic developers.