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JIM KANG: RÉSUMÉ

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I'm a software developer in Cambridge, Massachusetts. I've been a software developer since the year 2000. You can reach me at jimkang@fastmail.com.

My current strengths are making full stack web apps and finding ways to iterate quickly. I am working on a future strength: designing interactive explanations.

This is an overview of my work. If you just want to go straight to my publicly available code, [here are my Github repos](#) and my [NPM packages](#).

WHAT I'M LOOKING FOR

I WANT TO BUILD PRODUCTS THAT

- Help people understand ideas and situations.
- Get people to imagine possibilities.
- Put power in the hands of users instead of taking it from them. (e.g. Pull instead of push, [aid humans instead of replacing them](#).)
- Get users to think instead of just consume. This can be done without putting onerous burdens on them.

I AM INTERESTED IN

- Art
- Interactive explanations
- Procedural generation
- Product design

PROJECTS

Personal projects are important to me. They are a great way to get a sense of my interests and abilities, and unlike some of my commercial work, I can freely talk about all of it.

A few highlights:

- [An interactive explanation of quadtrees](#).

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- [@godtributes](#) is my most popular bot. It had 27,000 followers on Twitter. It is a merciless generalization of the "BLOOD FOR THE BLOOD GOD!" meme.

It was an interactive Twitter bot that, despite its limited modes of expression, inspired a lot of followers to fill in the blanks with their imaginations. Here's a nice review [on I Love E-Poetry](#) that discusses its poetic appeal.

- [annoy-node](#) is Node bindings for Annoy, a popular Approximate Nearest Neighbors implementation in C++.

There are a lot of machine learning models that figure out what is similar to what else. The way they express what they've figured out is in n-dimensional vectors representing things like words or songs.

This Node module lets you use — in JavaScript — what those ML models have produced.

If you want a **complete** view of my projects, [look at Observatory](#). It organizes 300+ projects from a variety of perspectives.

JOBS

WEB AND MOBILE ERA

This part of my career started around 2008 and continues today.

SPOTIFY

I currently work at [Spotify](#).

In 2016-2018, I worked on a team that built music recommenders for users (e.g. the [This Is playlists](#) — greatest hits playlists for artists that stay fresh by updating daily based on listening patterns) — and [Time Capsule](#)). Now, I work on a team that is building voice experiences.

Some things I've worked on at Spotify:

- An image generator that composes and renders thousands of playlist covers each day based on playlist contents by taking advantage of headless Chrome
- Internal apps (web apps, Chrome extensions, Electron apps) for evaluating and adjusting algorithmically-generated content

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- voice experience prototypes built in Alexa Skills and the browser (using the web Speech API and DialogFlow)
- External promotional web sites
- Gathering data from users via surveys

My work involves full-stack web engineering, navigating a unique internal infrastructure. It also involves investigating both user needs and technical possibilities.

There is quite a bit of building things purely to see how users will react (in in-person user tests and A/B tests). I've learned much about the value and costs of gathering information before you commit to something.

PAYPAL

I worked at PayPal on the Shop, a system built in Node.

The Shop site served coupons from various PayPal partners to hundreds of thousands of people per day. The front end was a single-page app built in AngularJS. The back end was a cluster of NodeJS servers that talked to PayPal services to manage the coupon and user information.

We used TDD, pair programming, and GitFlow heavily. We prioritized the mobile web experience, which I've taken to heart ever since.

NPR

I worked at NPR on a station management app and API. It was called Composer, and it was written in Node and Backbone.

I added this app's first automated tests (in order to safely do a big refactor to add OAuth to the API) and learned quite a bit about TDD as a result. Our team used a Kanban process and an unusually high level of design-development integration.

MODO LABS

I worked on various universities' iOS apps here.

VOTER ACTIVATION NETWORK

I worked on their ASP .NET and iOS apps.

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I spent a month as a "Data Fellow" during the 2008 presidential campaign.

WINDOWS ERA

This era lasted from about right after college (1999) to 2007.

GN RESOUND

I worked on their hearing device adjustment software, which at the time, was a C++ COM/ATL-based Windows desktop application.

INSTALLSHIELD

I worked on IDEs that let developers author "setups," programs that installed software onto computers.