

JIM KANG: RESUME

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.

PROJECTS

A few highlights:

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

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 worked at [Spotify](#) from 2016-2020.

- I worked on a team that built voice experiences.
 - I built a kit that allows non-developers (designers and researchers) to author full-featured voice prototypes, which are web apps that enable users to speak to them. The apps respond in kind with their own speech and music, with the help of internal natural language understanding and music intelligence technologies. Over twenty prototypes have been built between July and September of 2019.
 - I built experimental features for the Spotify iOS client.
 - I made prototypes with Android apps.
- Previously, 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](#)).

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

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.

NPR

I worked at NPR on a station management app and API.

It was called Composer, and it was written in Node and Backbone.

MODO LABS

This company built mobile apps for big institutions, mostly universities. It also wrapped up customers' existing data

sources to make them easily mobile-consumable.

I worked on various universities' iOS apps here.

OBAMA FOR AMERICA

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

GN Resound is a hearing aid company. Hearing aids are small digital sound processors. Audiologists can calibrate and gather data from them by connecting them to a computer.

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.