

Markan Patel

markanpatel.me
github.com/cooltoast
markanp@umich.edu

Summary

Software Engineer with a background in Biomedical Engineering, and experience in developing healthcare related technologies using Artificial Intelligence, Augmented Reality, and Web/Mobile App Development.

Education

Bachelor of Science, University of Michigan, Ann Arbor

Dec 2015

GPA: 3.6 · Biomedical Engineering · Computer Science Minor

Technical Skills

Proficient with: Python, JavaScript, Node.js, React/Redux, Docker, Kubernetes, SQL, C++, C, Android, HTML/CSS, Git

Familiar with: Java, Ruby, MATLAB, Arduino, Django, Flask, AngularJS, Express, MongoDB, Vimscript, Lisp

Experience

Software Engineer, PicnicHealth

Aug 2016–Sep 2018

Leveraged human-in-the-loop artificial intelligence—which won [Google’s Machine Learning Startup Competition](#)—to power PicnicHealth’s complete medical record data pipeline for better patient experiences and real-world clinical study outcomes. Implemented with a Node.js/React web app and Python services, containerized and deployed with Kubernetes. [picnic.ai](#)

Software Engineering Intern, Augmedix

May–Aug 2015

Designed and built end-to-end Mobile Device Management solution for [Augmedix’s health record documentation service](#) that streams patient visits via Google Glass wearables to medical scribes. Implemented solution to remotely control and monitor hundreds of Google Glass units, and help doctors better use the Augmedix Android app, so they spend less time charting health records and more time engaging with patients.

Codebase Manager, Michigan Hackers

Sep 2014–May 2015

Developing and maintaining open-sourced university related websites and mobile apps. [github.com/michiganhackers](#)

Software Engineering Intern, Nephosity

May–Aug 2014

Worked on a WebGL/JavaScript based [DICOM medical image viewer](#). Built a [RESTful API](#) with Python Tornado Web Server to upload and download medical images.

Software Developer Intern, Wireless Information Network Lab, Rutgers University

May–Aug 2013

Created [CannyCam](#), an image detection Python and OpenCV program using Canny Edge Detection and Haar Cascades to [isolate and detect](#) anatomical parts. Worked on [FaceRecHUD](#), an Android app using a MOD LIVE Heads Up Display and Android phone to [recognize faces](#) from a training set database and display relevant information, e.g. name and age.

Projects

Lost In Translation Twitterbot, Personal Project

Nov 2014–Present

Created a Twitterbot that scrapes famous quotes from [goodreads](#), translates them from English to a random language and then back to English, and finally tweets the almost recognizable result. [github.com/cooltoast/LostInTranslationBot](#)

Where Is My Child, Personal Project

May 2014–Present

Tracking a trip with the Google Maps API. Created Android app to send coordinates to Node.js app that stores and displays them on a map using the Google Maps API. Developed Google Glass app that displays miniature map of most recent GPS coordinate on a Glass live card. [github.com/cooltoast/where-is-my-child](#)

Right4Left.com, Personal Project

Dec 2011–Present

Created website with Ruby on Rails to share my experiences learning to play left-handed tennis. [github.com/cooltoast/Right4Left](#)

MHacks Website, Michigan Hackers

Sep–Nov 2014

Helped build the MHacks 5 hackathon website at [mhacks.org](#) using a MEAN stack. [github.com/mhacks](#)