

Markan Patel

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Education

Bachelor of Science, University of Michigan, Ann Arbor
GPA: 3.6 · Biomedical Engineering · Computer Science Minor

Dec 2015

Technical Skills

Proficient in: 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, Vimsript, Lisp

Experience

Software Engineer, PicnicHealth Aug 2016–Present

Leveraging [human-in-the-loop artificial intelligence](#) to power a complete medical record data pipeline for better patient experiences and real-world clinical 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 to medical scribes via Google Glass. Implemented solution with Google Cloud Messaging, thus enabling the company to remotely control and monitor hundreds of Google Glass units, and helping 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–Present

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 for sharing 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.