Markan Patel

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github github.com/cooltoast
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Education

Bachelor of Science, University of Michigan, Ann Arbor — Dec 2015

GPA: 3.6 · Biomedical Engineering · Computer Science Minor

Technical Skills

Proficient in: Python, JavaScript, Android, C++, C, HTML/CSS, MATLAB, Git
Familiar with: Java, Ruby, Arduino, Bash, Django, Flask, Node.js, AngularJS, Express, SQL, MongoDB
Certified in: HIPAA for Business Associates

Experience

Software Engineering Intern, Augmedix — May-Aug 2015

Designed & 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 websites and mobile apps for projects like MHacks and Learn2Hack. Improving student access to open-sourced tutorials and UMich APIs, available at github.com/michiganhackers.

Software Engineering Intern, Nephosity — May-Aug 2014

Worked on WebGL & JavaScript based medical image viewer at beta.jackimaging.com/demo, which parses and maps DICOM files for the viewer to display. Built a RESTful API with Python Tornado Web Server to upload/download medical images, and manage consultations, cases and conversations between doctors and patients.

Software Developer Intern, Wireless Information Network Lab, Rutgers University — May-Aug 2013

Created CannyCam, an image detection Python & 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

Where Is My Child, Personal Project — 2014-2015

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

MHacks Website, Michigan Hackers — Sep-Nov 2014

Helped build the MHacks 5 hackathon website at mhacks.org using a MEAN stack. Developed the back-end API for iOS and Android apps to fetch hackathon data, sanitize user input, and manage unit tests for models.

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

Right4Left.com, Personal Project — 2011-Present

Created website with Ruby on Rails for sharing my experiences in learning to play left-handed tennis. Currently developing an application with Android for logging and tracking training sessions. github.com/cooltoast/Right4Left