

Prakash Kumar

CONTACT INFORMATION

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Github: <https://www.github.com/pkash16>

EDUCATION

University of Michigan, Ann Arbor, MI

B.S., Computer Engineering

Sep 2016 – May 2019/Dec 2020

Current Cumulative GPA: 3.70/4.00

PROFESSIONAL EXPERIENCE

HealthPals, San Francisco Bay Area, CA

Software Engineering Intern

May 2017 – August 2017

- Full Stack liaison between the frontend and backend engineering teams in the development of the CLINT product(developed in python and react.js), designed to give value based decisions to clinicians at the point of care in regards to cardiovascular disease.
- Analyzed several thousand anonymous patient records while providing useful insights on patients' risk for cardiovascular disease by writing a Population Dashboard using javascript, python/pandas, and seaborn.

Underwater ROV Design/Build/Test, Ann Arbor, MI

Student/Hardware Engineer

Jan 2017 – May 2017

- Built an underwater ROV to compete in a competition for the Engineering 100 class at the University of Michigan.
- Used Arduinos and RF transmitters/receivers to build a remote control and bluetooth camera system allowed complete control and vision of the underwater ROV.

Internet of Things Home Automation, Northville, MI

Side Project

Aug 2015 – Jun 2017

- Developed a RESTful API for my personal garage using Twilio, Node.js and a Raspberry Pi.
- Controlled garage via a web application, text message, or android application for easy access to the house.

Microsoft Build Camp, Sunnyvale, CA

Student

Mar 2013 – Apr 2014

- Developed various web applications using HTML5, CSS, JQuery, Node.js and Angular.js including an application that gives a user a live, dynamic news feed on a map and launched them onto Microsoft Azure.

Mobile Game Development, Northville, MI

Side Project

Jan 2014 – Aug 2014

- Developed and launched "Psychoblocks", a video game for the android platform using Java and the Libgdx crossplatform library. Used Google Play Game Services to connect data to Google Servers.

Blind Sensor Navigation, Northville, MI

Side Project

Nov 2013 – Jun 2014

- Built a device running on an ATmega328p microcontroller that helps a visually impaired individual navigate around their surroundings. Received 1st place IEEE award at the 2014 Science and Engineering Fair of Metro Detroit.

LEADERSHIP

Music Director of Maize Mirchi A Cappella, a South Asian interest a cappella group on campus. President of the Bursley Hall Council, managed funds, sponsored local organizations and led community events for the benefit of residents.

PROGRAMMING EXPERIENCE

Languages: Python(pandas/seaborn), Java, Javascript, CSS, C++, C#, Unity, Bash, L^AT_EX
Other Technology: Redis, SQL, MongoDB, Arduino, Raspberry Pi, Unix