

KARAN KWATRA

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COMPUTER SKILLS

- **Languages:** C++, Python, C, JavaScript, HTML, CSS, Java, C#, SQL, Matlab, Verilog
- **Software Packages:** Git, Bash, Angular.js, React, Node.js, PostgreSQL, AWS S3, socket.io, jQuery, Django
- **Operating Systems:** Windows 10/8/7, Red Hat Enterprise Linux 7, Ubuntu Xenial Xerus

PROJECTS

- **ConcertTrack** | <http://karankwatra.com/concertrack> Summer 2017
 - A web application using Google Maps, Bandsintown and Last.fm APIs. Built using Materialize and Angular.js.
 - The app allows users to search for artists and view their upcoming performances on a map.
 - Includes venue information and links to buy tickets or view artist information.
- **Recess** | <https://recesschat.herokuapp.com> Summer 2017
 - A workplace solution for break-time location scheduling.
 - Users can sign into an organization, message, check in, and reserve specific locations.
 - Built using SemanticUI, Angular.js, Node.js, socket.io, and PostgreSQL.
- **Mithi Kalra Fashion Design** | <https://mithikalra.herokuapp.com> Summer 2017
 - An ecommerce solution for a budding fashion designer.
 - Communicated with client and led a team of four developers.
 - Includes admin functionality to view orders and edit website content.
 - Built using Bootstrap, React, Node.js, PostgreSQL, and AWS S3.

EXPERIENCE

MICHIGAN STATE UNIVERSITY COLLEGE OF OSTEOPATHIC MEDICINE East Lansing, MI
Website Developer May 2016 – August 2016

- Developed website to replace manual clerkship hospital assignment. Website uses personalized algorithm, designed with client, to assign students. Built in Python using the Django framework.

MICHIGAN STATE UNIVERSITY DEPARTMENT OF MICROBIOLOGY East Lansing, MI
Research Assistant January 2014 – August 2015

- Maintained application in C++ and added new functionality to Object and Cumulative Object Analysis modules of CMEIAS. Coordinated a team of three programmers. Researched various mathematical and statistical projects associated with the application.

EDUCATION

UNIVERSITY OF MICHIGAN COLLEGE OF ENGINEERING Ann Arbor, MI
B.S.Eng., Computer Science, B.S., Cognitive Science September 2015 – May 2019

- GPA: 3.4
- Dean's Honor List: Summer 2016
- Recipient of University of Michigan Club of Greater Lansing Scholarship
- Founder and Managing Developer at Ann Arbor Web Development
- Back-End Developer at Michigan Biological Software Club
- Relevant Coursework: Discrete Mathematics, Logic Design, Data Structures and Algorithms, Computer Organization, Cognitive Psychology, Patent Law, Technical Communications