
Tanner Trombley - Software Engineer - seeking full-time

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Skills

- Implementing Object Oriented Design principles in both **C++** and **Python**
- Developing for the web at scale using **Google App Engine, Python, and the Flask Web Framework**
- Developing client-side web applications using the **React JavaScript** library
- Debugging using various **visual debuggers** and the **GDB command line debugger**

Experience

Software Engineer / IMLC Research Group - University of Michigan

May 2015 - PRESENT, Ann Arbor, MI

www.imlc.io - Project Lead: Dr. Elliot Soloway

- Developed synchronously collaborative educational tools in an effort to facilitate social learning in the classroom.
- Utilized Google Drive and Realtime APIs as core building blocks to the service.
- Interacted with students and teachers in order to figure out the future direction of the product. This allowed me to get **experience with the entire product cycle** instead of just the engineering aspect.
- Worked as a part of an **Agile** development group.

Software Engineer / UM:Autonomy

September 2014 - April 2015, Ann Arbor, MI

- UM: Autonomy is a student team that builds an autonomous boat to compete in national competition.
- Responsible for designing the **route planning logic** for an underwater acoustic beacon detection challenge. Responsible for designing an efficient algorithm that will find an acoustic beacon underwater in a reasonable amount of time and with high accuracy.

Software Engineer/ smartBike - Mhacks personal project

MHacks 6, Ann Arbor, MI

- Developed a device that mounts on a bicycle to warn cyclists of fast approaching vehicles through a connected phone.
- Responsible for **sensor-level vehicle detection logic**. We used an **Arduino** with a directional **LIDAR** sensor mounted to the back of a bike to constantly look for threats. Notified the user via Android phone mounted on the handlebars.

IT Intern/ County of Monroe MI

2012 - 2014, Monroe, MI

Education

University of Michigan / Computer Science Engineering - GPA: 3.6

September 2014 - December 2016, Ann Arbor, MI

- Member of Eta Kappa Nu (**HKN**), Beta Epsilon Chapter - Computer Science and electrical engineering honor society
- Notable Classes: Object Oriented and Advanced Programming (umich.edu/~eecs381/), Web Database Systems, Internet Security (current), Data Structures and Algorithms, Video Games and Education (current)

Monroe County Community College / Associates of Science - GPA: 4.0

2012 - 2014, Monroe, MI

Awards

- Presidential Academic Achievement Award - 2014
- Outstanding Mathematics Student of the Year - 2014