

William Oursler

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Education

Massachusetts Institute of Technology 2011 - 2015

Major: 6-2 (Electrical Engineering & Computer Science)

GPA: 4.0

Notable Classes (Taken or Currently Enrolled): 6.004 Computation Structures, 6.002 Circuits & Electronics, 6.005 Elements of Software Construction, 6.042 Mathematics for Computer Science, 6.006 Introduction to Algorithms, 6.046 Algorithms II, 6.858 Computer Systems Security

Experience

Cyber-Auto Challenge

Battelle, Columbus, OH

Summer 2013

Worked in an integrated team of students, scientists, government personnel, and auto industry engineers in a practicum-based series of challenges oriented towards testing the cyber-security of CAN networks.

Undergraduate Researcher

Locomotion Lab (CSAIL), Cambridge, MA Fall 2011 - Summer 2012

Implemented URDF support in Yobotics Simulation Construction Set (Java), learned various aspects of Control Design and Verification Theory.

Simmons Tech Member

Simmons Hall, Cambridge, MA

Spring 2012 - Present

Part of a student committee tasked with managing dorm servers and information. Simmons Tech develops numerous services for residents. See <http://github.com/simmons-tech/>. I have personally worked on every repository listed.

Tech Consulting & Web Design

Rogue Valley Dermatology, Medford, OR Fall 2007 - Present

Create and maintain a business webpage (rvderm.com), implemented a HIPPA compliant patient photo database, build and maintenance Office PCs and Network.

Volunteer Exhibit Interpreter

ScienceWorks Museum, Ashland, OR

Fall 2007 - Spring 2011

Recognized for outstanding service and leadership. Assisted visitors with correct and safe use of exhibits, ensured exhibits remained functional, and assisted instructors with demos, etc. during week-long camps. Recognized for outstanding service and leadership.

Computer Skills

C++ Implemented a kernalized Hough Transform module and GLUT GUI for a 3D scanner project (see woursler.com for details). Proficient with Visual Studio (5 years of experience).

Java CSAIL UROP required work on the source of Yobotics Simulation Construction Set, written in Java. Coded many projects for the class 6.005, which is taught in Java, including a chat client.

Python Numerous Simmons Tech projects, personal projects, etc. For instance, I use python to group news RSS feeds using kNN clustering based on n-grams cosine distance. Familiar with tkinter, numpy, and matplotlib among other modules. See github.com/zomega for a small sampling.

Web Development Experience with HTML5 Development, including the use of LESS, CoffeeScript, and Django. See <http://simmons-dev.mit.edu/dashboard> for an ongoing project.

Git Have used git for numerous projects, see <http://github.com/zomega>.

L^AT_EX This resume is typeset in L^AT_EX. I also tend to T_EX math and CS psets.

Linux Terminal / Bash Scripting Ubuntu Linux is my primary operating system, I help maintain our dorm server and the Linux VMs (Debian, Fedora, and Scientific Linux) running on it.

ROS (Robot Operating System) Several personal projects, most recently a voice controlled hexapod.