

KELLY COLE

github.com/kmcole2

US Citizen

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EDUCATION

8/2012 - 5/2016 **University of Illinois, Urbana-Champaign**
Bachelor of Science, Computer Engineering, May 2016

EXPERIENCE

5/2015 - Present
Champaign, IL **IL Digital Ecologies and Learning Lab, Software Developer**
Set up technical demos for the launch of a \$600,000 lab made to research collaborative interaction in digital ecologies at UIUC's College of Education. Developed multi-touch web application under the direction of Professor Emma Mercier.

6/2008 - Present
Glenview, IL **SATCO, INC., Student Intern**
Reviewed technical drawings and strategic planning with leading boiler manufacturer Babcock and Wilcox. Improved sales through customer engagement over the phone, IT support.

5/2015 - 8/2015
Champaign, IL **AMDOCS, Technical and Business Operations Agent**
Developed software using JDeveloper that provides information necessary to ensure high availability on company servers.

5/2014 - 2015
Champaign, IL **ECE ELECTRONICS SERVICE SHOP, Student Employee**
Installed lab equipment, put together power supplies for ECE 385 lab kits in addition to performing miscellaneous electrical work under intense time pressure in anticipation of the opening of the new department building.

LEADERSHIP

5/2014 - 5/2016
Champaign, IL **UIUC CHINESE CLUB, Co-Founder**
Started a 130 member strong immersive Chinese language club.

12/2013 - 12/2015
Champaign, IL **ALPHA OMEGA EPSILON, Technology Chair**
As webmaster of aoetheta.org I hosted a Web Development Workshop Series for a group of 70 members to better enable women engineers in developing their own websites.
**Elected for three consecutive terms*

9/2012 - 5/2014
Champaign, IL **US NROTC, Webmaster, Squad Leader**
As Battalion Communications Officer, managed an official government website. Also participated in rigorous disciplinary training and leadership laboratories.

12/2013 - 10/2014
Champaign, IL **ILLINI UNION BOARD, Director of Musicals and Drama**
Managed a team of thirty-five members to produce a large scale, sold out Broadway Musical, *Rent* featuring a live pit band.

SKILLS

Development

HTML/CSS, C/C++, JavaScript, Java, Ruby/Rails, SQL, Swift, Xcode, LC3, x86, SystemVerilog, Processing, data visualization, data structures, systems programming, version control

Lab

Oscilloscopes, function generators, TTL chip/breadboard circuit design, Arduino, FPGA, EagleCAD

Language

Fluent in Chinese (Mandarin)

PROJECTS

Capstone Project *3 person team*
Designed and built a Bluetooth enabled ingredient printer for experimental bakers. Solely responsible for the mobile application and Bluetooth communication.

ECE 411 *3 person team*
Designed a LC3b processor in SystemVerilog with optimizations such as pipelining, multi-level caching, clock-gating, branch prediction and extended instructions.

OrderEat *4 person team*
Database backed web application made to run on tablets in restaurants to streamline the ordering process.

Snow Problem *4 person team*
Used AI CleverBot and Google Translate API to create a conversational web bot language learning tool.
**Google's Best Hack @HackIllinois2015*

Tetris *2 person team*
Used SystemVerilog to design a game of dual player tetris run on a Cyclone II FPGA