**Sarah Elizabeth Withee**

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**EDUCATION**

**University of Missouri-Kansas City**, Bachelor of Science in Computer Science

Cumulative GPA: 3.255 Graduation date: May 2015

**SKILLS**

**Languages:** C++, Java, PHP, JavaScript, SQL, C#

**Technologies:** Android, jQuery, Backbone.js, Twilio

**Version Control**: Git, Team Foundation Server, Subversion

**Databases:** MySQL, SQL Server

**IDEs:** Visual Studio, Eclipse, IntelliJ, WebStorm, PHPStorm

**Operating systems:** Windows, Linux, Mac OS X

**EMPLOYMENT**

**University of Missouri - Kansas City**, Kansas City, MO Aug 2014 – Present

*Undergraduate Teaching Assistant*

* Currently teaching one section of Programming & Problem Solving II lecture
* Prepare and present lectures on C++ and programming topics, create and grade homework assignments

**Perceptive Software**, Lenexa, KS Jun 2013 – Aug 2013, Jun 2014 – Aug 2014

*Software Engineering Intern on the Healthcare Integration Team (2014) and Business Intelligence Team (2013)*

* Added features to Perceptive Photo Transfer Client in C#
* Added features and solved bugs in Perceptive Photo Capture in JavaScript with jQuery
* Developed unit tests in JavaScript using Backbone.js and Sinod.js
* Developed new automated testing framework for reports using C++ and CPPUnit
* Helped solve Unicode bugs and added internationalization in current BI products using Java

**University of Missouri - Kansas City**, Kansas City, MO Aug 2012 – May 2014

*Undergraduate Teaching Assistant*

* Taught and graded two to three sections of Programming & Problem Solving II labs per semester
* Prepared labs, presented C++ concepts, and guided students through lab assignments

**AWARDS**

**UMKC Outstanding Junior of the Year in Computer Science Award** May 2013

**ACM-Style Programming Competitions** ACM International Collegiate Programming Competition (4th place team on site) Nov 2014

Perceptive Software Code Dash – 10th place team winner (of about 40 teams) Sep 2013  
 Consortium for Computing Sciences in Colleges – 3rd place team winner (of 23 teams) Apr 2012

**Hack the Midwest** (24-hour hackathon/programming competition)  
 Best Mobile App Award (team) Jun 2012

**PROJECTS**

**Commerce Bank Project Tracker** (Senior Capstone Project)

A group project in the Comp-Sci 451 class. It allows employees at the bank to contribute project ideas for local universities to work on with the bank. It also keeps track of the progress from the universities. I was the project manager and release manager. Bank executives told us we had one of the best looking and working apps.

**Number Scram** (https://itunes.apple.com/us/app/numberscram/id534951205)

My team developed a math game at the Hack the Midwest 2012 hackathon. The game won Best Mobile App.

**PencilMeIn** (https://github.com/geekygirlsarah/pencilmein)

This was a project in the Comp-Sci 449 class. It allowed small businesses to allow their clients to schedule appointments by a mobile app. The business owner would get notifications and be able to see their schedule for the day. My part of the project was the RESTful server that allowed the client-side Android app (that the remainder of the class worked on) to sync and store appointments.

**Mr. Engineer Text-Based Voting System** (https://github.com/geekygirlsarah/TextVotingApp)

This is a text-based voting system similar to the voting system on shows like American Idol I wrote in my free time. Event attendees could text in their vote for the candidate of their choice. It prevented cheating and sped up tabulating results, which was a problem with paper ballots in the past. Results were displayed in real time.

**UMKC IEEE Robotics Team** (https://github.com/geekygirlsarah/umkc\_robot\_2014, https://github.com/geekygirlsarah/umkc\_robot\_2013\_arduino)

This is the software component to operate the robot for UMKC’s IEEE Robotics Team. The robot had to autonomously navigate the course and perform the task for the year’s competition. I developed some of the hardware code and low-level navigation. The 2013 robot won fifth place of approximately 30 teams.

**ON-CAMPUS ACTIVITIES AND INVOLVEMENT**

**Upsilon Pi Epsilon** (International Honor Society for the Computing and Information Disciplines)  
 Inducted (Nov 2012), President (Aug 2013-Present), Volunteer Computer Science Tutor (Jan 2013-Present)

**UMKC Student Section of the Society of Women Engineers** 2011-Present

Webmaster (Sept 2014-Present), Regional Conference Planning Committee (Jun 2014-Present)

**UMKC Student Chapter of the Association of Computing Machinery** 2011-Present

Programming Competition Team Member (2011-Present), Treasurer (2011-2012)

**UMKC IEEE Robotics Team**  2011-2014  
 Artificial Intelligence Developer (Sep 2011-May 2014), Community Service Lead (Aug 2012-May 2014)

**OFF-CAMPUS ACTIVITIES AND INVOLVEMENT**

**Nebraska.Code() Conference** March 2015

Workshop presenter: “Intro to Hacking the Raspberry Pi”

**Tech sHeroes** Technical Mentor Feb 2014-Present

Middle school program to empower young women to learn about technology and coding

**CoderDojoKC** Technical Mentor Jan 2014-Present

Free classes for youth to learn programming

**LEARN Science & Math Club** 2011-Present

Technical Mentor for a FIRST Tech Challenge team (high school), former Technical Mentor to two FIRST LEGO League teams (middle school)

**Missouri, Iowa, Nebraska, Kansas Women in Computing (MINK WIC) Conference**

Planning Committees for 2013 and 2015 conferences, 2013 Lightning Talk presenter: “Why You Should Participate in a Hackathon” and “Becoming an Undergraduate Teaching Assistant”, Attendee in 2011

**Grace Hopper Celebration of Women in Computing Conference**

Attended every year since 2012

**neighbor2neighbor** 2007-Present  
A homeless services organization and food kitchen where I provide IT consulting, website maintenance, contact list maintenance, and donation record database management