KIRSTEN RAUFFER

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EDUCATION

Undergraduate ■ Rutgers University
September 2012 - May 2016 // New Brunswick, NJ // GPA: 3.26
Bachelor of Science ■ Computer Science
- Software Engineering & Information Management
- Computer & Software Systems

Bachelor of Arts ■ Philosophy

RESEARCH

Research Assistant ■ Aresty Research Center
September 2014 - Present // New Brunswick, NJ
Secured a highly competitive spot as a Research Assistant for the research project: Musical Robotics. This research project explores a creative way to bridge the gap between the Arts and the Sciences by creating a robotic instrument that plays itself and interacts with its audience in a unique way. Primary roles include:
- Conceptualizing and planning of the unique musical robot
- Laser cutting and 3D printing the robot's parts
- Arduino programming with MIDI library
- Circuit design

WORK

Electrical Engineering Intern ■ PSE&G
May 2013 - October 2014 // Newark, NJ
Secured a technical internship as a Controls Design Intern for high voltage power systems. Was offered an extended school-year internship after a Summer 2013 Internship based on a department-wide presentation.
Main projects included:
- Designing and implementating the installation of a solar meter in a substation
- Designing and implementating the installation of an ESOC communication switch for a 26kV capacitor bank

Primary roles included:
- Evaluating and implementing various field-marked Controls design drawings
- Analyzing data and creating useful representations for the department
- Coding macros and evalutating the efficiency of programs for several department-wide excel programs

Assistant Instructor: Robotics Seminar ■ Minds in Motion, LLC
January 2014 - May 2014 // Mountain Lakes, NJ
Assisted students of ages 6-12 in 8-week long seminars of robot building. The main goal was to inspire students to explore CS and AI at a young age. Primary roles included:
- Troubleshooting and assisting in construction of each student's robot
- Instructing and providing direction

PROJECTS

Up ■ HackRU
April 2014 // New Brunswick, NJ
Built an iOS application during this 24-hour hackathon. "Up" is an alarm clock that is based on the current weather at the time of the alarm. The alarm's ringtones change based upon whether it is sunny, rainy, cloudy, ect so that the user can know the weather upon waking. Once the user swipes to turn the alarm off, the application shows trending activities for the day using FourSquare's API. This project is ongoing.

Personal Website ■ http://kirstenrauffer.com
September 2014 - Present // New Brunswick, NJ
Built from scratch within 24 hours, this responsive website serves as a personal website for myself. It is centered around a Processing.js canvas where honey bees fly peacefully around the website and follow the user's mouse.

VOLUNTEER

Application Reviewer ■ National Center for Women & Information Technology
October 2014 - December 2014 // Remote

SAT Coach ■ Let's Get Ready!
May 2014 - September 2014 // Summit, NJ
Tutor for the Mathematics portion of the SAT. Let's Get Ready is an organization that aims to close the educational achievement gap between low-income students and high-income students by providing the necessary tutors, books and tools to succeed on the SAT for free.

Volunteer ■ Rutgers Semester of Service at Sammy's Hope Shelter
September 2013 - December 2013 // Edison, NJ

SKILLS

Proficient in ■ Java, C, JavaScript, Processing.js, HTML5, CSS3
Experience with ■ JQuery, Objective C, Arduino Programming, 3D Printers, Laser Cutters, Visual Basic
Familiar with ■ Python, Matlab