

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

SKILLS

Proficient in ■ Java, C, HTML, CSS
Experience with ■ JavaScript, JQuery, Objective-C, Visual Basic
Familiar with ■ Python, Matlab

TOOLS

2D ■ Illustrator, InDesign, Photoshop **IDE** ■ Eclipse, Xcode, Processing **Other** ■ SAP, Microsoft Office, P6
3D ■ Cinema 4D, Rhinoceros **Hardware** ■ 3D printers, laser cutters, Arduino Uno

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 robotic instrument
 • Rapid prototyping of the robotic instrument using a laser cutter and 3D printer
 • Arduino programming using the MIDI library
 • Circuit design

WORK

Front-end Web Developer and Designer ■ Doggie Doo Good
January 2015 - Present // Glen Rock, NJ
Working with a local non-profit charity to launch a design-heavy website. This website will serve as a platform for users to schedule appointments and learn more about Doggie Doo Good and all it has to offer.
 • Utilizing JavaScript, JQuery, HTML5, and CSS3 for front-end work
 • Using Illustrator, Photoshop, and Processing for 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 and roles included:
 • Coding macros and improving the efficiency of pre-existing macros for several department-wide excel files
 • Designing and implementing the installation of a solar meter and an ESOC communication switch
 • Evaluating and implementing various field-marked Controls design drawings
 • Analyzing the department's efficiency and creating useful representations of this data for the department
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 - Present // 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, etc so that the user can know the weather upon waking.
Personal Website ■ <http://www.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
Mathematics SAT Coach ■ Let's Get Ready!
May 2014 - September 2014 // Summit, NJ
Kennel Volunteer ■ Rutgers Semester of Service, Sammy's Hope Shelter
September 2013 - December 2013 // Edison, NJ