Kirsten Rauffer
a developer with international experience

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Education

Rutgers University
State University of New Jersey
BA *Computer Science*
New Brunswick, NJ, USA | 2012 - 2016

Technical University of Munich
Technische Universität München
TUM Exchange Program, *Computer Science*
Munich, Germany | 2015 - 2016

Skills

Programming
C, C#, Java
Swift/iOS Programming
Arduino Programming

Web Development
HTML, CSS, JavaScript, jQuery
PHP, MySQL/SOQL
Anjular.js, Express.js

Design
Illustrator
Sketch
InDesign
Photoshop

Natural Languages
English, native
Danish, limited proficiency
Spanish, limited proficiency

Other Relevant Skills
Laser Cutting/3D Printing
Rapid prototyping
Woodworking
Wireframing

Work

Microsoft
Dynamics AX SCM
Software Development Engineer
Copenhagen, Denmark | 2016 - present
Intersecting fields: business, supply chain management

Working in the Microsoft Dynamics AX SCM engineering team starting summer of 2016.

Freelance
Self
Web and Mobile Developer
Remote | 2016 - present
Intersecting fields: design

Working as a freelance developer, designer, and consultant for web and mobile content specializing in front-end development.

Codecademy
Operations
Engineering Consultant, *Programming Advisor*
New York, NY, USA | 2015 - present
Intersecting fields: education, teaching

Advising students using Codecademy's platform in their coding exercises. Teaching students anything from basic programming concepts like object-oriented design, to language specifics for languages such as Python, Ruby and JavaScript.

Roche
Neptun App
Software Engineering Intern, *iOS Development*
Munich, Germany | 2015 - 2016
Intersecting field: healthcare

Developed an iPhone and Apple Watch app to allow patients with diabetes to manage their therapy. This application integrates Roche's blood sugar meter with HealthKit to display a patient's blood sugar, fitness, and nutrition data in a useful way while presenting actionable information and recommendations to patients. Focused on front-end development.

UnitedHealth Group
Optum
Software Engineering Intern, *Application Development*
Basking Ridge, NJ, USA | 2015 - 2015
Intersecting fields: healthcare, business

Full-stack development for an internal web app using Salesforce which allows employees to search for projects, portfolios, and colleagues. Implemented a "follow" feature that allowed for users to receive updates on the status of projects/portfolios.

PSEG
Public Service Electric & Gas, Controls Department
Electrical Engineering Intern, *Controls Design*
Newark, NJ, USA | 2013 - 2014
Intersecting fields: power generation, analytics

Designed the wiring diagrams, schematics, and front and rear views for the installation of an SEL-74 solar meter and several ESOC communication switches in power plants. Reviewed and approved changes to field-marked controls design drawings.

Research

Rutgers University
Aresty Research Center for Undergraduates
Undergraduate Research Assistant, *Musical Robotics*
New Brunswick, NJ, USA | 2014 - 2015
Intersecting fields: music, interaction design, arts

Created the first travel-size polyphonic musical instrument with electromechanical and electromagnetic actuation. Modeled the instrument after a dulcimer. Responsible for laser cutting, 3D printing, and all Arduino programming. Integrated sensors to adjust the tempo of the music played to the user's heart rate, allowing for potential therapeutic benefits. Used MIDI library for musical programming of the robot.

Selected Projects

KneeHapp
JASS Course, Technische Universität München
iOS/WatchKit Development
St. Petersburg, Russia | 2016 - 2016
Intersecting field: healthcare

Developed an iPhone and Apple Watch app for KneeHapp, an existing iPad application (currently undergoing clinical trials) for patients recovering from ACL injuries. KneeHapp tracks a users rehabilitation through motion detection of patients by using sensors in a custom knee bandage. Focused on front-end development and porting existing Objective-C code to Swift.

Autonomous Driving App
Audi Autonomous Driving Cup
iOS/Web Development
Munich, Germany | 2015 - 2016
Intersecting field: automotive

Developed a web app and iPhone app for the testing of an autonomous vehicle, allowing for both manual and autonomous instructions to be sent to the vehicle using UDP. The application also displayed live video feed from the car.

Crit It
Audi Autonomous Driving Cup
iOS/Web Development
New Brunswick, NJ, USA | 2015 - 2016
Intersecting field: arts

Developed a web app for art students and professors. Built the front-end and back-end using HTML/CSS3, JavaScript, PHP, and MySQL. Crit It allowed professors to set up course pages for their students so that students could critique each other's artwork.

Most of my projects are not open source, but you can see some projects on my GitHub, http://github.com/kirstenrauffer