

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, Python
Swift/iOS Programming
Android Programming
Gameboy Programming
Arduino Programming

Web Development

HTML, CSS, JavaScript, jQuery
PHP, MySQL/SOQL
Ruby on Rails
MongoDB
Angular.js, Express.js, Node.js

Design

Illustrator
Sketch
InDesign
After Effects
Photoshop

Natural Languages

English, native
Danish, limited proficiency
German, limited proficiency
Spanish, limited proficiency

Other Relevant Skills

Laser Cutting/3D Printing
Rapid prototyping
Woodworking
Wireframing
Storyboarding

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.

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 and HealthKit integration.

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.

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