

Carrie Mah

UX Designer | Developer | Computer Scientist

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UX Designer and Developer passionate about promoting technical literacy and inspiring women to pursue STEM fields. Utilizes organizational, technical, artistic, and design skills to create useful tools, improve events, and teach technology.

Education

Bachelor of Science with Internship in Computer Science

UNIVERSITY OF CALGARY

Calgary, Canada

September 2011 - December 2017

- Concentration in Human Computer Interactions and minor in Visual Studies, GPA 3.37/4.0

Skills

Skills	Interaction design, rapid prototyping, user research, website design
Tools	Photoshop, Illustrator, Axure, Moqups, Git, LaTeX, Visual Studio, MAMP
Languages	C#, XAML, WPF, Java
Web Technologies	HTML5, CSS3, Sass, JavaScript, Angular.js, PHP, Wordpress
Operating Systems	Mac OS X Yosemite, Windows 8, Scientific Linux, Windows Phone

Relevant Experience

Digital UX Designer - Co-op Student

H&R BLOCK CANADA

Calgary, Canada

May 2016 - Present

- Gather requirements to design tax forms, tax slips, and user flows on large software components using Moqups and Axure.
- Develop recruitment surveys and usability studies to test proposed designs and existing software components, analyze participants using the think aloud method, and compile reports and provide recommendations.
- Implement front-end software changes using HTML, CSS, and Angular.js, provide code reviews, and perform quality assurance.
- Analyze feedback surveys to resolve issues with the Support team, describe improvements and bugs on Jira, and present reports on Tableau.
- Created guides to maintain code consistency and improve on-boarding and workflow for front-end developers and content writers.
- Collaborate with design team to improve designs, provide feedback, and discuss business and user needs.

Undergraduate Research Assistant

INNOVATIONS IN VISUALIZATION LABORATORY, INTERACTIONS LAB

Calgary, Canada

August 2014 - Present

- Presented a workshop paper and developed a prototype using Java about how products can be represented as fingerprints, presented at the VIS Personal Visualization: Exploring Data in Everyday Life workshop.
- Analyzed qualitative data using open coding practices and contributed to a paper on how non-scientific disciplines can utilize large images and data on a high resolution large display, presented at the 2015 ITS conference.

Developer Intern

CRITICAL MASS

Calgary, Canada

May 2015 - August 2015

- Collaborated in an interdisciplinary team to create a strategic plan, creative design, social campaign, technical document, and a prototype in HTML5, Less, and Javascript for a mobile application where users rate accessible businesses.
- Developed design layouts into responsive prototypes using Middleman, HTML, and Sass.
- Designed and developed mobile capabilities, a blog, and event calendar in an existing Wordpress site using HTML, CSS, and Javascript; this included a detailed end user document discussing how to use the site.

Summer Student

NUREVA

Calgary, Canada

May 2014 - August 2014

- Led development for a C# and WPF client application and integrated the University of Calgary's SoD (Society of Devices) framework, which allows multiple devices to communicate together and utilize spatial awareness.
- Developed, debugged, and implemented demonstrations for the client application.

Related Projects

Designer & Developer

University of Calgary

UNDERSTANDING THE COMPUTER SCIENCE DEGREE

February 2016-April 2016

- Designed and developed a visualization to help students and staff members better understand the degree at the University of Calgary using Javascript (D3.js), HTML5, and CSS3.
- Created a data set provided by the university, analyzed it using Tableau and NodeXL, and presented trends about the data set.

Designer & Developer

Calgary, AB

THE RECIPE HELPER

November 2015

- Designed a prototype to optimize the recipe flow for novice chefs by providing a hands-free interaction with a mobile device and easy-to-follow recipe format using HTML5, CSS3, Javascript, Leap Motion Javascript API, and reveal.js.
- Awarded Most Useful at a Javascript competition and showcased in a Maker Faire at a student technology conference.

User Experience and Interface Designer

Calgary, AB

EDU APP CHALLENGE ZERO TO HERO

November 2015

- Collaborated with a small team to create an interaction flow using pen and paper, created graphic design assets using Adobe Illustrator, and designed the prototype using PencilCase.
- Awarded Third place and People's Choice in a challenge to help students, by creating a prototype for a gamified mobile application that helps teens critically think about the content they place on social media.

Volunteer Experience

Project Manager

Calgary

SUPPORTWORKS

August 2016 - February 2017

- Coordinated with a group of students and SupportWorks leaders to update content, develop brand style, and create a new Wordpress site.
- Advised and assisted developers on best practices, processes, and tools for web development and Wordpress.

Digital Projects Team Lead & Events Coordinator

University of Calgary

WOMEN IN SCIENCE AND ENGINEERING

April 2015 - Present

- Planning a variety of events including a ProtoChallenge where students pitch ideas, research market validation and technical feasibility, and create prototypes.
- Planning academic, industry, and social events including logistics, sponsorship, and advertising.
- Designed professional resources such as sponsorship packages and updated a website to follow a new brand style.

Computer Science Department Representative

University of Calgary

SCIENCE STUDENTS' SOCIETY

April 2015 - Present

- Manage an online community for undergraduate students to share opportunities, events, and resources
- Coordinate events such as a Grow in Diversity panel and lead workshops such as the Google Design Sprint for Mobile

Lead Instructor

Calgary, Canada

GIRLS LEARNING CODE

May 2013 - Present

- Assist workshop attendees with their technical educational pursuits
- Created slide decks and taught programming concepts, Scratch, HTML, CSS, branding, and design

President

Calgary, Canada

COMPUTER SCIENCE UNDERGRADUATE SOCIETY

May 2014 - April 2015

- Organized a group of executives to plan social, academic and career-focused events for the undergraduate population.
- Strengthened relations with industry representatives and professors to speak about the Computer Science field.
- Co-created a resource directory to supplement students' education by sharing personal class notes, videos, and websites.

Awards

2016 Faculty of Science Dean's List (GPA 3.88/4.0)

2015 Computer Science Undergraduate Society Award