CLARICE NG

3B Computer Science | Human-Computer Interaction Option
University of Waterloo

http://github.com/claricen
claricen.github.io
c32ng@uwaterloo.ca

WORK EXPERIENCE

Undergrad Research Assistant
David R. Cheriton School of Computer Science   *May - Aug 2016*
- Working in the Human-Computer Interaction lab under supervision of Dr. Edith Law

Bioinformatics Developer
Public Health Agency of Canada   *Jan - Apr 2016*
- Worked on redesigning *Superphy* web application to improve the application's scalability and maintainability
- Refactored front-end HTML templates to the Mithril.js framework using Coffeescript to improve browser rendering times
- Developed Python scripts to upload and validate gene and genome metadata to a triplestore graph database
- Designed a virulence factor ontology to be integrated with the database

Creative Tech Specialist
Marketing & Strategic Communications, University of Waterloo   *May - Aug 2015*
- Created responsive HTML email invitations compatible across multiple email clients to reach individuals throughout the university
- Gathered user stories from various departments for the redesign of the Waterloo Content Management System with behaviour driven development methodologies

PROJECTS

Design and Web Development
- Designed and developed *personal website* (HTML, CSS, Sass, experimented with AngularJS)
- Heavily involved with design of Math Orientation 2015 website
- Contributed to Women in Computer Science website (git, Pelican)
- Designed *mock-ups* for an Android app at Hack Western 2

EXTRA

Director of Publicity, Office Manager
Women in Computer Science Undergrad Committee   *May - Dec 2015*
- Designed around 3-5 posters and banners a month to publicize events using Photoshop and Illustrator
- Maintained the office policy and organized office hours

Undergraduate Research Opportunities Conference Participant
David R. Cheriton School of Computer Science   *Oct 2-4, 2015*
- Worked with the HCI project group, designed a rapid prototype for a mobile game to increase motivation for users to collect observations on noise pollution for researchers.

TECHNICAL TOOLBOX

Industry Experience
- Python, HTML/CSS, Coffeescript, Mithril.js, SPARQL, triplestore databases, git, bash, Linux

Others
- C++/C, AngularJS, Sass, Less, Javascript, Flask, Racket, Bootstrap, Java

Design
- Photoshop, Illustrator, Indesign

EDUCATION

Bachelor of Computer Science
University of Waterloo   *2013 - 2018*
- Term Dean's Honours List (Fall 2013 - Winter 2015)
- President's Scholarship

Relevant Courses
- Operating Systems
- Algorithms
- User Interfaces
- Data Structures and Management
- Foundations of Sequential Programs
- Computer Organization and Design
- Object-Oriented Software Development
- Logic and Computation
- Introduction to Combinatorics
- Statistics and Probability