Charles Wu
Systems Design Engineering

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Objective

To create elegant interfaces by conducting user research and solving ambitious problems in order to perfect user experience.

Experience

Designer McKinsey Digital
Summer 2014, New York City, NY
- Translated client requirements and completed user needs analysis to optimize product performance
- Developed visual layouts, storyboards, low to high fidelity prototypes, and interactive demos using FramerJS

UX/Developer Intelligent Mechatronics Systems
Fall 2013, Waterloo, ON
- Conducted user research and performed user case analyses to improve application performance for all customers
- Designed, improved, and developed Android fragments and layouts, decreasing load time by 50%
- Created and integrated modern visual elements into the project

iOS Mobile Developer Ash City Worldwide
Winter 2013, Richmond Hill, ON
- Managed the development lifecycle, prototyping and testing of customer application while enforcing best practices
- Worked with clients to optimize user interface
- Developed the iOS Ash City App independently

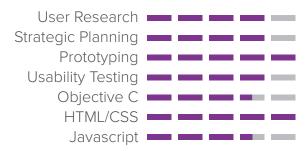**Web Content Developer** Raymond James Ltd.
Summer 2012, Toronto, ON
- Worked with multiple advisors on creating personalized websites
- Redesigned the employee Intranet site using HTML5, CSS3, JS, Photoshop and Flash
- Created and updated content for the public Raymond James webpage, impacting hundreds of daily users

Business Project Assistant York Municipality
Fall 2011, Newmarket, ON
- Developed an intuitive user feedback system that was implemented in several senior assistance centres
- Improved bureaucratic workflows by introducing digital technologies and improving user experience

Skills

- User Research
- Strategic Planning
- Prototyping
- Usability Testing
- Objective C
- HTML/CSS
- Javascript

Education

Bachelor of Applied Science: Systems Design Engineering, Management Science Option (Graduating April 2015)
University of Waterloo, Waterloo, ON.
Relevant Courses: Cognitive Ergonomics, Human Factors, Engineering Design

Activities and Interests

Projects
- Created device to wirelessly transfer data files via gestures
- Developed and published an Android study tool
- Developed a fitness tracking app to process sensor data
- Freelance Photography

Volunteer
- EngSoc Class Rep for Systems Design 2015 (2010 - Present)
- Orientation Leader and Director (2012 - 2014)

Student Organizations
- Co-op Storage - Co-Founder & Designer (2014)
- BufferBox - Student Designer and Team Lead (2012)

Recreation
Biking, Frisbee, Volleyball, Soccer, Piano, Guitar, Cinema, Short walks on the beach