


Charles Wu

Systems Design Engineering, Management Science Option

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Objective

To create intuitive interfaces and solve ambitious problems by being dynamic, detailed, and building off of industry best practices.

Experience

Designer McKinsey Digital

Summer 2014, New York City, NY

- Translated client requirements and conducted user needs analysis to optimize products
- Developed visual layouts, storyboards, low to high fidelity prototypes, and interactive demos using FramerJS

UX/Developer Intelligent Mechatronics Systems

Fall 2013, Waterloo, ON

- Performed user research and user needs analyses to improve application performance for all customers
- Designed, improved, and developed Android code, decreasing load time by approximately 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 and published the iOS App with a team of one

Web Content Developer Raymond James Ltd.

Summer 2012, Toronto, ON

- Worked with multiple advisors on developing 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

Proficient: User Research, Prototyping (Ai, Ps), Problem Analysis, Communication

Experienced: Objective C, HTML/CSS, Javascript, Data Vis

Familiar: SQL, Machine Learning, Python

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, Data Structures & Algorithms

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