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ABOUT ME I enjoy combining human factors/UX with my technical background. I also use my free time to pursue hobbies like cooking, home renovation, and DIY cosmetic chemistry.

EDUCATION

Masters of Engineering in Industrial and Mechanical Engineering, 2018 | University of Toronto

Product Design MIE 540 Intelligent Robots for Society MIE 1070
Data Science (Python) MIE 1624 Human Factors Engineering MIE 1401

Advanced Mobile User Interfaces (Node.js) ECE 1782

Bachelor of Applied Science in Honours Computer Engineering, 2015 | University of Waterloo With Management Sciences Option

User Centred Design Methods SYDE 348 Embedded Software (C) ECE 455
Engineering Design Project (Arduino) ECE 498A/B Computer Security (C, Ruby on Rails) ECE 458

Database Systems (Java , SQL) ECE 356

GRAD WORK

AcneBot | https://p-k.github.io/acneBot.html

Advanced Mobile UI principles used to design a Facebook chat bot that helps a user determine if they have acne vulgaris.

Lexmark Software Redesign | https://p-k.github.io/lexmark.html

Identified and addressed Human Factors issues within the UI of the application.

Twitter Sentiment Analysis

Used data science principles to conclude the sentiment of Canada related tweets using scikit-learn (machine learning library).

SKILLS

Java	3D Modelling + Printing	Arduino + Rapid Prototyping	User-Centred Design	HTML, CSS
C#	Ruby on Rails	JavaScript, AngularJS	SQL	Python

WORK EXPERIENCE

Latency Hammer Architect (Prototype Engineer)—Co-op | Tactual Labs

Sept-Dec, 2014

- Devised Arduino driven tool ("Hammer") to measure latency between user input on touch screens and onscreen feedback.
- Designed & 3D printed a custom enclosure to improve portability and protect touch input + controller boards.

Software Engineer—Co-op | EventMobi

Jan—May, 2013

- Localised product for several languages in order to increase accessibility.
- Created specifications, designed, & developed (architecture, RESTful API) internal tool for Account Managers to increase efficiency in fetching client info.
- PHP, MySQL, AngularJS, and HTML.

Software Engineer—Co-op | Mosaic Sales Solutions

May—Aug, 2012

- Developed configurable 'RSVP' & 'Sweepstake' Facebook application templates for company to easily reuse for different marketing campaigns.
- Ruby on Rails, jQuery, and PostgreSQL.

Software Engineer—Co-op | Mosaic Sales Solutions

Sept-Dec, 2011

- Built + maintained Facebook and Twitter campaign apps for Nutella and Stella Artois based on client specs.
- Architected internal web application geared to prepping future co-op students.
- Ruby on Rails, PostgreSQL, Git.

SELECTED PROJECTS

Tag'd | https://p-k.github.io/tagd.html

Portable laser tag system: a capacitively triggered laser-firing glove, fibre-optic lined vest, and an Arduino-driven hub, which manages gameplay settings, score keeps and displays stats in real-time on a web page.

RiseN'Shine | https://p-k.github.io/riseShine.html

Travel friendly sunrise simulating alarm using flexible LED strips, piezo-electric sensors and an Arduino.

Waterloo Works

Usability assessment of client WaterlooWorks using user-centred design methods (usability testing, heuristic evaluation, use of personas, survey design and data collection) in order to suggest improvements to product.