PREKSHA KASHYAP

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ABOUT ME I enjoy problem solving and data modelling, and aspire to specialize in backend development and infrastructure. In my free time, I like to cook... a lot.

SKILLS

Data Modelling Server-Side JavaScript TypeScript MongoDB OOP Spec Planning Agile

WORK EXPERIENCE

Software Developer | Zensurance

Toronto, ON | Aug, 2018—Dec, 2019

- Designed architecture and development plans to automate bordereau reporting that would require no human intervention.
- Developed a notification API in TypeScript to send notifications to account managers upon changes in payment pipeline.
- Developed models and built workflows using JavaScript and MongoDB to develop specialized insurance questionnaires for different industries, increasing avenues for revenue by 20%.
- Conducted primary research and performed data modelling to create custom Salesforce component for all brokers to use.
- Developed a library to perform automated invoice generation and improved data reconciliation between 3rd-party services.
- Converted key libraries from JavaScript to Typescript for better standardization.

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

Toronto, ON | 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

Toronto, ON | Jan-May, 2013

- Localised product for several spoken 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

Toronto, ON | 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

Toronto, ON | 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.

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).

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.