Indranil Sen – 2B Computer Engineering

+1(519) 701-9879 | i3sen@uwaterloo.ca | www.indranilsen.ca | indranilsen | indranil-sen

Summary

- Demonstrated entrepreneurship and engineering leadership by **winning 1st place at Microsoft Hacks**
- Developed production **features for Texas Instruments'** Resource Explorer cloud & desktop tool
- Received the **"Top Contributor Award"** among 133 interns at Manulife/John Hancock
- Co-founder of Influx; **earned a $120,000 IBM grant** for crafting a cutting-edge VR platform

Relevant Experience

Software Engineering Intern   [Employer Evaluation : Outstanding]   Jan 2017 – Apr 2017
Texas Instruments, Inc.   Toronto, Canada

- Redesigned the core download & install procedures for better efficiency and to facilitate new future features
- Augmented Resource Explorer's in-house analytics engine with new features and better data resolution
- Integrated a tag-management system to the code base, allowing marketing teams to monitor live analytics
- Added ability to monitor real-time database refresh using server-sent events
- Closed 57 issues throughout the internship with 212 code-reviewed contributions to the master branch

Full Stack Developer   [Employer Evaluation : Outstanding]   May 2016 – Aug 2016
Manulife/John Hancock LOFT: Lab of Forward Thinking   Toronto, Canada

- Used agile methodologies to develop a multi-million-dollar revolutionary client tool
- Independently developed features and pushed patches to the production codebase
- Created a powerful script that reduces project setup time by 15%
- Used industry best practices and design patterns to develop modular and repeatable code

Co-Founder   Aug 2015 – Apr 2016
Influx   London, Canada

- Designed a web platform for virtual reality including the front-end service using AngularJS
- Secured $120,000 in credit funding from IBM's Global Entrepreneurship Program

Skills

Languages	C, C++, Java, JavaScript, Python, Bash, Matlab
Web Development	Node.js/Express, Web Scraping, Data Mining, Redis, jQuery, AngularJS, REST APIs, FlexBox, MongoDB, Gulp, HTML, CSS
Hardware	ARM RISC ISA, Low-level C/C++, Assembly, FPGAs, VHDL, Arduino, Raspberry Pi

Projects

ParkSafe	Tackles the prevalent issue of bike-theft and won 1st place at Microsoft Hacks NodeJS, AngularJS, MongoDB, Mongoose ORM, Express, PassportJS
Cartastic	Uses Computer Vision to detect ingredients and recommends recipes based on it Node.js, iOS
Web-App Builder	Saves hours by dynamically creating a web-app boilerplate with user specifications Bash, Ruby, Homebrew Deployment
Student Finance Tracker	A robust and light weight app that helps students manage their finances Java, Apache POI, Heavily Object Oriented Desktop App
3-Axes Accelerometer	An alternate analog system to detect 3D tilt; 2nd place in Science & Engineering Fair Digital Circuits – Logic Gates, Timers, Circuit Design Principles
Quad-Legged Walker-Bot	A terrestrial-locomotive robot with obstacle-detection from custom sensors C, Circuit Design Principles, Arduino

Education

BASc Computer Engineering, University of Waterloo   Sep 2015 - present

- Earned $28,500 in entrance scholarships as the top ECE undergraduate (Class of 2020)

Valedictorian, Catholic Central High School   Sep 2011 – Jun 2015