Indranil Sen – 2B Computer Engineering

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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

Toronto, Canada

Texas Instruments, Inc.

• 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

-air

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