

Richard Chen

Robotics Engineering Student

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Experience

CLOUD DEVELOPER

Royal Bank of Canada (RBC), 2016

- Examined client information with big data analytics to make business decisions, using JavaScript, Hadoop, and Python
- Participated in presentations and discussions with senior management regarding how technology can help to maintain RBC as the biggest company in Canada (by revenue)
- Employed Agile methodology in a company with large infrastructure

EMBEDDED SYSTEMS PROGRAMMER

U of T Engineering Design Team, 2015-2016

- Built an autonomous robot that steered along a pipe and detected "radiation" spots using IR sensors, in a team of three
- Programmed a real-time embedded system to process and control signals for sensors and actuation in Assembly, using the PIC16F877A microcontroller
- Worked with elements of the automotive ECU and circuitry, while exercising in-lab safety precautions

FULL-STACK DEVELOPER

Hospital for Sick Children (SickKids), 2015

- Created and managed several databases for images and account information, using MySQL and MongoDB
- Structured a DevOps pipeline and built tests for web applications, using Jenkins
- Optimized and debugged code for hardware used in otoscopy and ophthalmoscopy training, with Java in Eclipse

DEVELOPER AND TRANSLATOR

JellyBAM, 2012-2013

- Contributed to a former Android ROM development team by creating apps in Java with Google's Android SDK
- Translated various parts of the system to Swedish

Extracurriculars

- **Webmaster** at EngSci Club
- **Automotive Design** at University of Toronto Robotics Association
- **Webmaster** at University of Toronto Engineering Kompetition
- **Web Developer** at Nspire
- **Lead Trumpeter** at Skule Nite Musical
- **Youth Cornetist / Trumpeter** at the Hannaford Silver Street Band

Education

CANDIDATE FOR:

BASc IN ENGINEERING SCIENCE
MAJOR IN ROBOTICS ENGINEERING

University of Toronto

2014-2019

GPA: 3.76/4.00

Currently enrolled in Machine Learning, Data Mining, Artificial Intelligence, Control Systems, and Embedded Systems courses

Skills

CODING

HTML / CSS / JavaScript

Node.js

Java

Python

Assembly

C

C++

MATLAB



DATABASES / MISC.

IBM Bluemix

NoSQL (MongoDB / Cloudant)

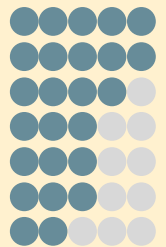
Git

Agile Methodology

Jenkins

SQL (MySQL / PostgreSQL)

LabVIEW



LANGUAGES

English

Mandarin / Cantonese

German

Swedish



Competitions

- **First Place** at HackThe6ix 2
- **People's Choice** and **Top 5 Finalist** at RBC Insurance Cloud Innovation Challenge
- **Best Data Visualization** at HackWestern 2
- **First Place** at ECOO (with The Woodlands School Computer Science Club)