

Darren Tu

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EDUCATION

MCMASTER UNIVERSITY

BASc, COMPUTER SCIENCE CO-OP

Expected April 2021

- Awarded honourable entrance scholarship for academic excellence
- cGPA: 3.8/4.0

SKILLS

PROGRAMMING:

Proficient in:

- JavaScript (ES6 syntax)
- Python • Java
- React.js • Node.js

Familiar with:

- Git • HTML / CSS
- Bash • MongoDB
- Meteor.js
- Express.js

LINKS

- GitHub:// [darrentu](#)
- LinkedIn:// [darrentu](#)

COURSEWORK

- Data Structures & Algorithms
- Unix Tools and Scripting
- Operating Systems
- Databases
- Discrete Math

LEADERSHIP

- Wolfram student ambassador (2016-2017)
- Computer Science Society first year representative (2015-2016)
- President of North Park S.S computer science club (2014-2015)

AWARDS

- Tech and the City: B2B prize winner (2017)
- MHacks 8: Amazon Alexa prize winner (2016)
- Dean's Honour List (2016)
- WildHacks 2: network visualization prize winner by Trustwave (2015)
- Honour Award Recipient (2015)

EXPERIENCE

IBM CANADA LTD. | SOFTWARE DEVELOPMENT INTERN

May 2017 – Aug 2018 | Markham, ON

- Worked in a hybrid agile team to develop an internal control panel for IBM's cloud infrastructure team and became lead developer near end of internship
- Designed, delivered, and tested several new components & visualizations using Meteor.js, Node.js, React.js, MongoDB, and Mocha (testing)
- Took a pivotal role in software design by discussing and writing more scalable & maintainable code (ex. a database translation layer for modularity)
- Transitioned code to a more stateless architecture which reduced worst case data load time by more than 90%
- Initiated code transition to a more micro-service based architecture which allowed easier separation between persistent data from cached data
- Helped with product support by frequently checking the support channel and addressing problems quickly
- Led the training of new members and assisted them with pair programming
- Demoed project to senior executives and answered technical questions in Q&A
- **Side project:** Built the back-end caching layer for the release notes web page of IBM's next-generation cloud infrastructure beta

MCMASTER UNIVERSITY | RESEARCH ASSISTANT & DEVELOPER

May 2016 – Aug 2016 | Hamilton, ON

- Worked as the sole developer on a health app using Angular.js and PHP (Laravel)
- Debugged massive legacy code bases along with consulting previous developer

MCMASTER UNIVERSITY | TEACHING ASSISTANT

May 2016 – June 2016 | Hamilton, ON

- Facilitated "Introduction to Programming" lab classes by explaining basic computer science concepts and guiding students with lab exercises
- Created assignments and helped mark assessments

RELEVANT PROJECTS

SMS BUSINESS INFORMATION PLATFORM | DEVELOPER

Oct 2017 | Top Business to Business hack at Tech and the City

- Built a solution which allows users to receive business information through SMS when requested using the Twilio API
- Received positive feedback from demo followed by a request for further work

FOOD IMAGE RECOGNITION APP | TEAM LEAD

Oct 2017 | Top 5 teams in People's Choice at IBM Watson Health Hack

- Managed a team of 4 IBM developers in creating a solution which can provide nutritional information based on the food picture taken using IBM Watson's Visual Recognition API

VOLUNTEERING

DELTAHACKS (HACKATHON) | RELATIONS EXECUTIVE MEMBER

Nov 2015 - Apr 2017

- Initiated and maintained contact with various companies, organizations, and associations for the purposes of supporting DeltaHacks and raising money.
- Promoted DeltaHacks to a large audience of 300+ members