

# JULIAN YONGMIN SONG

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Github: <https://github.com/ymsong01>

Portfolio: <https://ymsong01.github.io>

## EDUCATION

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- Sept 2014 - Present    **University of Toronto St. George Campus, Toronto, ON**
- Bachelor of Science, specialist in Computer Science (focus in Artificial Intelligence) and major in Statistics. CGPA: 3.64/4.0
  - Expected graduation May 2019
  - Achieved the University of Toronto President's Entrance Scholarship 2014
  - Achieved Trinity College Chancellor's Scholarship - Ashbaugh 2015

## SKILLS

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- Programming:    Fluent in Java, Python, HTML, CSS. Familiar with Xpath/XQuery, C, JavaScript, Verilog, LaTeX, R, C++.
- Technologies:    Git, Subversion, Linux/Unix, Eclipse IDE, Android Studio, Dojo Toolkit, AngularJS, NodeJS, Selenium, IBM Watson, Bluemix, RTC, SQL
- Electronics:    Arduino Programming, PCB schematics design, soldering, breadboarding, Altera Quartus & Modelsim
- 2<sup>nd</sup> Languages:    Fluent in Korean. Elementary in Japanese

## WORK EXPERIENCE

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- May 2016 - Aug 2017    **Java and Web Software Developer Intern - IBM Cloud, IBM, Markham, ON**
- Implemented new features and fixed defects for recent releases of IBM Hybrid Cloud - Business Process Manager (BPM) software products using Java, HTML, CSS, JavaScript, XML, Dojo Toolkit, Spring framework and Node.js
  - Participated in agile software development (Scrum) for Repository & Web UI Framework and Runtime/Engine teams..
  - Refactored JDBC templates and implemented dynamic UI components and RESTful APIs.
  - Developed BPM Automated Survey Analyzer using BPM software and IBM Watson APIs (AlchemyAPI, Natural Language Classifier, Tone Analyzer) as a team to automate customer support services and assist technical support engineers.
  - Created, tested and optimized numerous Selenium automated test cases to improve the automated test package runtime by 60%.
- May 2015 - Aug 2015    **Summer Software Developer and Researcher, iGEM Toronto, Toronto, ON**
- Developed a web application ConsortiaFlux to compare genome-scale metabolic models of bacterial consortia to analyze the introduction of synthetic E. coli from the Athabasca river microbiome as a team using HTML, CSS, JavaScript and Biojava.
  - Main Project: A Genetically Engineered Solution for Oil Sand Tailings.
  - Researched on the biodegradation of the microbiome, Toluene found in Alberta's oil sand tailing ponds and its potential political and environmental risks.
  - Nominated as the Best Applied Design during iGEM 2015 competition held in Boston, Massachusetts.

## PROJECTS

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- Aug 2017 - Present     **Java Spring Content Management System Application**
- Currently developing a Java Spring Content Management System application.
  - Source code can be found from <https://github.com/ymsong01/Content-Management-System>
- Oct 2016 - Mar 2017     **IBM CASCON 2016 Community Hackathon ReachUp Ultimate Application**
- Achieved the 1st place with the proposed business solution and the developed software during the IBM CASCON (Centers for Advanced Studies) 2016 Community Hackathon.
  - Collaborated and provided a business solution to resolve the challenges faced by the non-profit community, Reach-Up Ultimate association.
  - Developed and maintained the Ultimate Scheduling Application using Node.js, IBM Cloudant, Bluemix, MDL and Vue.js as a team.
- Jun 2016     **MSFTHacks 2016 “Am I joking?” Django web app using Microsoft Azure ML API**
- Implemented Django web application, “Am I Joking?” which detects whether user makes a TWSS joke using Microsoft Azure Machine Learning Studio and Bing Speech to Text API as a team during MSFTHacks 2016.
  - Scraped the raw data from web in order to train it on Azure Machine Learning Studio

## EXTRA-CURRICULAR & VOLUNTEER EXPERIENCE

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- May 2016 - Mar 2017     **Future Blue Intern Web Team Developer, IBM, Markham, ON**
- Developed IBM Intranet web applications to assist other interns.
  - Managed and updated IBM intern website regularly and made the website responsive.
- Sept 2016 - Dec 2016     **Future Blue Newsletter Team Lead, IBM, Markham, ON**
- Organized and updated news for Future Blue intern community at IBM Canada.
  - Participated in a weekly meeting with HR team to discuss various ways to encourage interns to participate IBM organized events actively.
- Sept 2015 – Apr 2016     **DCS Student Ambassador, Department of Computer Science, Toronto, ON**
- Volunteered and provided general assistance to the University of Toronto DCS events and promotes the events as a DCS ambassador.
- Sept 2012 - Apr 2014     **Career Preparation in Trades and Technology Program, VSB, Vancouver, BC**
- Achieved 2 years education program in trades and technology sponsored by Vancouver School Board.
  - Practiced Linux – Ubuntu environment, soldering, PCB schematics design and Arduino.
  - Worked as a computer technician at local companies in Vancouver.
- Dec 2011 - Mar 2014     **Mathematics Student Instructor, Mathematics Tutoring, Vancouver, BC**
- Advised grade 8-10 students in developing Mathematical skills.
  - Assisted students with their Mathematics homework and upcoming tests.

## HONOURS & CERTIFICATES

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- Oct 2016     IBM CASCON Community Hackathon Winner
- Aug 2016     IBM Mentorship Program Certificate
- Apr 2016     University of Toronto Dean’s List Scholar 2016
- May 2014     International Baccalaureate (IB) Diploma Program
- Feb 2013     Distinction Certificate, Canadian Fermat Mathematics Contest
- Bronze Certificate, Canadian Hypathia Mathematics Contest