Justin Yongju Song

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EDUCATION

University of Toronto, Toronto, ON.   Sept 2014 – Current
- Completed 3rd year in Bachelor of Science, Computer Science Major and Statistics & Mathematics Minor.
- Awarded the $2000 Entrance Scholarship in Sept 2014.   CGPA: 3.60/ 4.00
- Expected Graduation: June 2020

TECHNICAL SKILLS

Languages: Fluent in Java, C, Python3, Perl, XML, Scala, NodeJS, AngularJS, CSS
Familiar with C#, Ruby, PHP7, Vue.js, D3.js, XQuery

Hardware & DevOps: Jenkins, Docker, Maven, RAM testing, Verilog, Soldering, Altera FPGA

Platforms & DB: AIX, RedHat, Ubuntu, DB2, Oracle, PostgreSQL, RTC, Hadoop, MongoDB
MSSQL 2016, GraphQL, Cassandra, DBeaver

Technologies: Spring, Firework, AWS, Git, Subversion, Android Studio, Spark 6.0
Selenium, Bugzilla, IBM Watson, Azure, Ignite, OAuth 2.0, JIRA, Flask web

WORK EXPERIENCES

Software Engineer Intern – *Tesla*, Palo Alto, CA.   Jan 2019 - Apr 2019
- Developed a Flask Web application to effectively collect the data across multiple servers & Jenkins nodes using DataTables and AngularJS.
- Improved a new web messaging of Tesla Infotainment System for Model 3 by 19%.
- Developed new features for the Spring boot webservice for Program Managers to sign off and manage the milestone schedule by the request of the director in program management.

Summer Backend Developer Intern – *Royal Bank of Canada*, Toronto, ON. May 2018 - Aug 2018
- Worked for RBC Machine Learning & DNA (Data & Analytics) team to find an effective solution for client smart matching and search using GraphQL, Scala, and Spark 6.0.
- Developed a Spring API Endpoint which applies the Ignite ML and Caching layer to manipulate data from Cassandra clustering environments authenticated with OAuth 2.0.
- Awarded **RBC Cross-Functional Team Awards - Q2 2018** for my contributions to the team.
- Recipient of **RBC Summer 2018 Top Talent Students Recognition** (given to 6 out of 191)

Software Developer Intern – *IBM*, Markham, ON.   Sept 2016 - Dec 2017
- Re-implemented IBM Web Messaging Queue System to increase its response time by 16% using Java and Kubernetes. Work was completed along with IBM WebSphere Team.
- Developed two Reporting Website Interfaces that manage the UI and QA results using PHP 7.
- Troubleshooted different OS(AIX, RedHat, Ubuntu) to fix the OS specific bugs with MDM.
- Implemented RESTful API with DevOps tools Docker and Microservice API. Enabled the feature of registering a service based on JSON through Java and Vue.js.
- Created and maintained automated test packages using Selenium Framework and Bugzilla.

Summer Software Developer – *UofT iGEM*, Toronto, ON.   May 2015 - Sept 2015

- Developed the Framework of the Consortia Flux Interface using BioJava and D3.js to find an effective way to develop a DNA model that prevents a further destruction of the oil sand pond.
- Researched on the biodegradation of the microbiome, Toluene found in Alberta's oil sand tailing ponds and its potential political and environmental risks.
- Awarded the 2nd place out of 56 teams at the iGEM 2015 Research Competition that was held in Boston, Massachusetts for the recognition of the project and proposal.

Web Developer (Voluntary) –*Toronto 2015 PanAm Games*, Toronto, ON.   April 2015 - Aug 2015

- Tested the website server workload and improved its performance by 22% using Selenium.
- Managed and developed Toronto 2015 Pan Am Games Volunteer Portal using JavaScript.

PROJECTS (Projects Available on https://github.com/justinsong01)

RBC Summer 2018 Hacks – Python, Spark, Django   July 2018 - Aug 2018

- Earned the 3rd place by developing Django based web application for smart relevant search integrated with spark.

AI Student Research for SOCAN (CSC454 Project) – Java, Watson   Jan 2018 - Apr 2018

- Researched and developed a RESTful API for AI Speech to Text conversion technology for a better automation to interpret metallic sound videos using IBM Watson API.

Trend Analyzer – Java, DataTables, Hadoop, JavaScript   Sept 2017 - Mar 2018

- Developed a Hadoop based trend analyzer and tracker that reads from data which is in a CSV file format to analyze current and predicted trend of the collected data.

Maven Plugin for Java Spring Framework – Java, Maven, Spring   July 2017

- Developed Maven Plugin for Java Spring Framework Workaround using Java and Maven.

Google Script Projects – Java, Google App Script(.gs), HTML   April 2017 - May 2017

- YouTube Auto Subscription Adder using Google Spreadsheet API embedded with HTML.

MSFT Hacks 2016 – JavaScript, MS Azure Microservices API, Slack   June 2016

- Developed a Slack Application which communicates with Microsoft Azure Microservices API to inform the changes made throughout the system.

Flight Booking Android Application – Java, AngularJS, HTML, Android   Jan 2016 - May 2016

- Implemented an Android Application to enable users to book and manage flight schedules.

VOLUNTEER EXPERIENCES

Future Blue Newsletter Team Lead – IBM, Markham, ON.   Jan 2017 – Apr 2017

- Managed & Sent Weekly Newsletter for IBM Intern Community regarding upcoming events.
- Cooperated with other IBM Team Leads to improve IBM internal website.

Computer Science Ambassador – UofT, Toronto, ON.   Sept 2015 – Aug 2016

- Assisted Department of Computer Science by organizing career workshops in Toronto.
- Officially awarded badge for distinctions and volunteer I contributed for UofT CS Dept.