

Tian Luan

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EDUCATION

University of California Berkeley, United States

Expected, May 2016

Master of Engineering, Industrial Engineering and Operations Research

University of Toronto, Canada

Sep 2010-May 2015

Honors B.A. Sc. in Industrial Engineering CGPA: 3.72/4.0, major GPA 3.95/4.0

Anglo-Chinese School (Independent), Singapore

Jan 2006-Dec 2007

Obtained Singapore-Cambridge GCE Advanced Level Certificate (A-Level) 3A and 1B

Honors: UC Berkeley Opportunity Grant Scholarship, Singapore Government Full Scholarship, Student of Dean's Honors List in all semesters (University of Toronto), Ranked top 1 in Fundamentals of Object Oriented Programming, Silver Award in Singapore Youth Modern Dance, etc.

WORK EXPERIENCES

IBM Lab – Project Management/Operations/Globalization/Advisory consultant Intern

May 2013-May 2015

- Developed real-time data query tracking and visualization tools (replaced PowerPoint), using SPARQL to assist in the delivery of monthly operations review reports from 10+ separate Jazz Platforms; automated Directors' reporting methods.
- Coordinated and planned time schedules for IBM globalization teams up to 14 countries. Streamlined successfully release process flow up to 5 software products and more than 10 releases.
- Collected, investigated and analyzed global customer feedback data and enhancement requests, summarized and presented results to the director for future release planning
- Selected as advisory consultant to participate joint voluntary collaboration project "mission-critical infrastructure monitoring" with Southern Ontario Smart Computing Innovation Platform and Canadian Advance Technology Alliance

Centre for Maintenance Optimization & Reliability – Summer Research Assistant

May 2012-Aug 2012

- Performed and presented Excel&Java statistical analysis(2k Entries) of vehicles maintenance plan for Toronto Airport

Beijing Capital International Airport, Beijing, China – Quality Control Intern

May 2011-Aug 2011

- Coordinated 24hr schedule for Bombardier Transportation System and analyzed passenger flow data

PROJECT & RESEARCH EXPERIENCES

American Jobs Project –sponsor & partner: United States Department of Energy

Sep 2015-May 2016

- To collaborate with Goldman school of Public Policy and Law School to promote potential job opportunities in renewable energy industries through data analytics, researches, interviews, etc.

Data Structure Optimization Research Thesis – advisor: Prof. Michael Gruninger

Sep 2014-May 2015

- Completed Machine Learning thesis on NASA SWEET ontology in OWL format of semantic web and application in Common Logic (grade: A⁺), we successfully optimized data structure and efficiency by more than 10%

Interactive Data Management System Design – advisor: Prof. Chi-Guhn Lee

Sep 2014-May 2015

- Completed Capstone project to (grade: A⁺) design online file management system to enhance the performance and workflow process for Engineering Graduate Office. Business Process map was created with multiple-stakeholder user interfaces. Design is documented and implemented for back-end development

Inverse Optimization Data Verification with Java&Gurobi on LEED Certificate

Jun 2013-Aug 2014

– Applied Optimization Lab, Advisor: Prof. Timothy Chan

- Created and validated Computational Gurobi Inverse Optimization model with Java for up to 1 million data entries

SKILLS & INTERESTS

Software: IBM Rational Engineering Lifecycle Manager, IBM Lotus suite, Microsoft office suit, Minitab, Simul8, Gurobi, Sigma,

Programming: JAVA, SQL, SPARQL, Matlab, C,AMPL, Gurobi, currently learning R in UC Berkeley

Quantitative: GRE Math 169/170, Coursera Duke-Master Data Analysis in Excel, Stanford-Machine Learning(currently enrolling), A-level Advanced Mathematics Grade A, Distinction in Australia Mathematics Competition

Leadership: Project Manager in Capstone Project "American Jobs Project", Project Lead in IBM IBeacons Design Challenge