Programmes d'enseignement
coopératif

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Co-operative education
programs

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Curriculum vitae

Resumé

Last Update: May 16, 2018

PERSONAL DATA

Hao Luo
103 Red Rock Lane
Ottawa (Ontario)
K2C 3H2

Language of correspondence	Citizenship
ENGLISH	**Canadian**

Employment Equity	Security clearance
Member of visible minorities	**Yes**

ACADEMIC DATA

Program of studies	**Bachelor of Science** **Joint Honours in Computer Science and in Mathematics (Co-op)**					
Year Level	**3**					
Cumulative grade point average	**8.76**	letter equivalent of university of ottawa cumulative grade point average	10=A+ 9=A 8=A- 7=B+ 6=B 5=C+ 4=C 3=D+ 2=D 1=E			0=F

Work term information

Term	Employer	Overall evaluation
1. 2017, Summer	**Giatec Scientific Inc.**	**Exceptional**
2. 2018, Winter	**Ribbon Communications (formerly GENBAND)**	
3. 2018, Fall	**Interset Software Inc.**	
4. 2019, Summer		

* a blank field in the - overall evaluation - column means that the evaluation has not yet been submitted by the employer

Hao Luo

LANGUAGES

Language Name	Speaking Level	Writing Level	Comprehension Level
English	Fluent	Fluent	Fluent

EDUCATION

2015 - present	**Bachelor of Science Joint Honours in Computer Science and in Mathematics** University of Ottawa, Ottawa, ON • Currently in second year AWARDS AND ACCOMPLISHMENTS • Received admission bursary for an average over 90% • Deans List Membership • MISA (Management Information Systems Association) club • MakerSpace club (certified in using 3D printing and welding • Volunteer for CauseTutoring
2011 - 2015	**Ontario Secondary School Diploma (OSSD)** Longfields Davidson Hieghts Secondary School, Ottawa, ON • Two time silver medal award (grade of 90% or higher) • Part of the school volleyball team for four year straight.

SKILLS

Computer	**Operating System** • Very familiar with Windows 7,8,9,10. Able to debug most problems on Windows, as well as search for files on Windows **Microsoft Office** Excel • Created tables and graphs to show mathematical equations in physics • Organized a personal master schedule and finance table to help manage my life. Word • Aquired knowledge of Word by writing numerous lab reports, assignments etc. • Famililar with different features of Word, such as templates, designing, formating etc. Powerpoint • Presented numerous powerpoints for class projects • Customized slides with animation, pictures and effects
Communication	**English** Written Skills • Created multiple lab reports for labs. • Completed technical report writing class, a class focused on writing clear and precisly • Produced analysis report for International Business class, focusing on businesses in Canada. Oral Skills • Spoke about Free-Trade Rice using Prezi infront of 30 classmates • Discussed and suggested ideas for an international business group project • Presented a pitch for Line Buddy to an audience and a panel of judges during

StartUp Weekend

Engineering	**Programing Language**
	Java
	•Learned concepts such as arrays, linkedlists, heapsearch, hashtables, binary search trees, error catching, binary sorting, mapping etc. Used these concepts in school assignements and personal projects.
	•Created a game that uses GUI, string manipulation and Java.Swing API
	•Created an encoding and decoding program, using the concept of Huffmantrees. The purpose was to reduce the bitsize of files.
	•Created a reaction type and probabilty type game in using android studio.
	Python
	•Learned concepts of array manipulation of 1D and 2D arrays, for example different sorting techniques(insertion, bubble, etc).
	•Created basic programs that do mathematical computations
	•Created an animal game that focuses on the concepts of OOP programing (classes, inhertance, etc)
	C#
	•Created an algorithm using arrays to find the file name, file path and file icon. As well as accessing the file with clicked.
	•Used C# in developing integration tests and developing multiplatform apps in Xamarin
	•Used Gimp2 to create my own personal images and my own personal navigation panel
	Objective C
	•Helped fix bugs in IOS app using Objective C
	•Changed and updated style class, calculation classes and UI components in Objective C
	SQL
	•Experience using Flask, React, Bootstrap and Postgres SQL to create a "Coop Application" website for DataBase class
	•Knowledge of relational database, including queries, keys, SQL statements etc.
Mathematical	•Completed linear algebra courses, which focuses on concepts of matrix algebra, linear independence, vector spaces, linear transformation, isomorphism, multilinear mapping, inner product and Gram-Schmidt algorithm.
	•Completed Introduction to Probability course, focusing on discrete and continous probability. As well as normal, exponential, chi, distribution.

WORK EXPERIENCE

September 2016 -	**Volunteer**
	Cause Tutoring
	•Colaborated with the lead webdesigner to create the Fundrasing page for CauseTutoring.org
	•Used Gimp2 to create a rough draft of the Fundrasing page for the lead designer
May 1, 2017 - December, 30, 2017	**Tester/Junoir software Developer**
	Giatec Scientific
	•Contributed in testing the apps before releasing a new build. This includes feature tests, migration tests and a general test.

- Programmed, architected an automation test for the current SmartRock2 app. Used the framework EarlGrey to write the automation test.
- Helped solve minor bugs, mostly UI issues in the app. This included changing messages in the app, adding and removing a style class, working with the calculation classes, etc.
- Helped create and recorded mock data for the marketing team.
- Helped create architecture diagrams and sequence diagrams for the current SmartRock2 and Smart Concrete apps.
- Used VBA to import and calculate data from multiple reports gathered in the app
- Used IMacro to help the marketing team to create a program to search names through LinkedIn

June 1, 2017 -	**Developer**
	University of Ottawa

- Research project for creating an app that interacts with a humidity sensor
- Designed and architected for the graphing pages.
- Implemented graphing with real-time data.

January 1, 2018 - May 1, 2018	**Junior Developer**
	Ribbon Communication

- Work with Zoomdata and **big data**
- Work on websites using **html5, css, javascript, typescript, Angular 1, Angular 2.** This mainly was working on the presentation of the website, creating new components and fixing small bugs on the website

- Experience working on a **Linux Virtual Machine.** Familiar with linux commands such as "ls -alrt" as well as using the Vi

REFERENCES

Desen Guo	Imran Ahmad
Lead Developer	Customer Service
Giatec Scientific	Giatec Scientific
Supervisor while working at Giatec Scientific	Co-worker at Giatec Scientific
613-869-2308	613-612-4716
desen@giatec.ca	Imranahmadengg@gmail.com

Hao Luo

Courses

Code	Title	Term	Grade	Units
		2015, Fall		
MAT1341	INTRO. TO LINEAR ALGEBRA		A+	3.00
ITI1120	INTRODUCTION TO COMPUTING I		A+	3.00
ADM1100	INTRODUCTION TO BUSINESS MANAG		A+	3.00
ENG1112	TECHNICAL REPORT WRITING		A	3.00
MAT1320	CALCULUS I		A+	3.00
CGPA	9.8			
		2016, Winter		
ITI1121	INTRODUCTION TO COMPUTING II		A+	3.00
MAT1325	CAL II AN INTRO TO ANALYSIS		A-	3.00
MAT1348	DISCRETE MATH FOR COMPUTING		A+	3.00
ITI1100	DIGITAL SYSTEMS I		A+	3.00
CMN1148	INTRO ORGANIZATIONAL COMMUNIC		A	3.00
CGPA	9.6			
		2016, Fall		
MAT2371	INTRODUCTION TO PROBABILITY		A-	3.00
MAT2122	MULTIVARIABLE CALCULUS		B	3.00
MAT2141	LINEAR ALGEBRA I		A-	3.00
CEG2136	COMPUTER ARCHITECTURE I		A	3.00
CSI2110	DATA STRUCTURES AND ALGORITHMS		A	3.00
CGPA	9.07			
		2017, Winter		
CSI2120	PROGRAMMING PARADIGMS		A+	3.00
MAT2143	ALGEBRAIC STRUCTURES		B	3.00
CSI2132	DATABASES I		A+	3.00
CSI2101	DISCRETE STRUCTURES		A+	3.00
CSI2911	PROFESSIONAL PRACTICE IN COMP		A	3.00
COP 100	CO-OP Professional Development			0.00
CGPA	9.05			
		2017, Summer		
CSI2901	CO-OP WORK TERM I		P	3.00
CGPA	9.05			
		2017, Fall		
MAT3172	FOUNDATIONS OF PROBABILITY		C+	3.00
CSI3105	DESIGN ANALYSIS ALGORITHMS I		A	3.00
SEG2105	INTRO TO SOFTWARE ENGINEERING		A-	3.00
MAT2355	INTRODUCTION TO GEOMETRY		A-	3.00
PSY1102	INTRO TO PSY: APPLICATIONS		A-	3.00

CGPA	8.76	

2018, Winter

CSI3901	CO-OP WORK TERM II	3.00
CGPA	8.76	

2018, Summer

GNG4120	TECH ENTREP FOR ENG & COMP SCI	3.00
CSI3140	WWW STRUC. TECHN. & STANDARDS	3.00
CSI3104	INTRO. FORMAL LANGUAGES	3.00
CSI3131	OPERATING SYSTEMS	3.00
MAT3172	FOUNDATIONS OF PROBABILITY	3.00
CGPA	8.76	

2019, Winter

MAT2125	ELEM REAL ANALYSIS	3.00
MAT3348	APPLIED DISCRETE MATHEMATICS	3.00
MAT2375	INTRODUCTION TO STATISTICS	3.00
CGPA		

------- End of course list -------

Legend

Grades

10=A+	9=A	8=A-	7=B+	6=B	5=C+	4=C	3=D+	2=D	1=E	0=F

Symbols

()= Credits not granted	*= Excluded from average	ABS= Absence
ADD= Additional to requirements	AUD= Auditrice/auditor	CR= Credit
CTN= Continuing	DFR= deferred	DNW= See: ABS
DR= Dropped	H= Honours	HP= Out-of-program
EIN= Failure/Incomplete	NC= No credit	NNR= Not available
NS= Unsatisfactory	P= Pass	S= Satisfactory
SCO= Insufficient credits		