Allen Peng Lu

11120 76 Ave NW Edmonton, AB. T6G 0J8 || Phone: 604-788-6862 || E-mail: aplu@ualberta.ca

LinkedIn: https://www.linkedin.com/in/allen-lu-219115195/

Skilled in the development and maintenance of elegant mobile applications while meeting time constraints. Experienced in creating embedded query database programs, database relationships, and querying with database API. Well-versed in implementing optimal algorithm design paradigms to app development and UI navigation. Experienced in Object-Oriented design, analysis, and implementation in teams of 2-6 developers.

Core Competencies

Python

Java

Android Studio

Python SQLite3

• C/C++

Mips Assembly

 Excel Forecasting Simulations

Education

• Computing Science, 3rd Year, University of Alberta (Sept 2016 – Scheduled for April 2021)

Personal Projects

Git handle: ApluUalberta

Mood-Tracker Android Studio Group Project (September 2019 – December 2019)

Glo – Android Mobile App

Github Link: https://github.com/CMPUT301F19T03/GroupProject1

- A collaboration of 6 group members using Github pull requests to encourage collaboration
- Google Maps and Firestore-hosted workloads to keep track of user moods, times, dates, reasons, and location
- Extensive Revisioning of App Interfaces to provide an eye-pleasing interface
- Tasked with automated UI testing to ensure product was presentable, fast, and effective
- Presented the final product to 50 non-technical people

Crime Statistics Database Program (March 2019 – April 2019)

Crime Statistics UI - Edmonton Open Data Initiative

Github Link: https://github.com/ApluUalberta/Crime-Statistics-Database-Program

- Simple Command Line Interface that allows for 4 complex database queries on a given Database
- Embedded SQLITE3 Queries in Python to create a simple UI
- Imported Pandas and Folium Libraries to plot queried data onto graphs
- Menu Entry runs 1 of 4 Queries depending on user input

Paper Review Database Program (February 2019 – Marcher 2019)

Paper Reviewing Terminal UI – Presentation Paper Database

Github Link: https://github.com/ApluUalberta/Paper-Review-Database-Program/tree/master/src

- Simple Command Line Interface that allows for 7 complex database queries on a given Database
- Embedded SOLITE3 Queries in Python to generate query data on Linux terminal UI
- Imported Pandas and matplotlib Libraries to plot queried data onto graphs
- Queries and UI tested extensively with various sample databases of different sizes

Hobbies

• Powerlifting, Drone Photography, RC Vehicle Modification, E-Commerce Entrepreneurship

Allen Lu

Edmonton, AB, T6G0J8 || (604)-788-6862 || aplu@ualberta.ca

January 12, 2020 Heather Finn STEMCELL Technologies 1618 Station Street Vancouver, BC V6A 1B6

Re: Systems Co-op Student (8 months)

To Heather Finn,

As a passionate and fast-learning problem solver that is well-versed in software development tools and algorithm design and circuit technology, it is with great excitement that I have submitted my resume for consideration to become an 8-month systems development intern of STEMCELL Technologies Vancouver. As an efficient and vocal team-oriented developer I have experience in Android mobile application development, testing, and presentation in combination with a low-level understanding of computer architecture, C/C++, and operating systems design. I am prepared to contribute to your company's technological goals in developing scalable and effective automated tools while meeting any time constraints necessary to complete the task.

I am currently in 3rd year pursuing a degree in computing science with a specialization in software practice at the University of Alberta. My focus is on using and understanding software on multiple levels, computer architecture, operating systems, and the application of discrete mathematics in algorithm design. Please look at the following project examples from my resume, which outlines the competencies that I can leverage to further the goals of STEMCELL Technologies Vancouver.

- Designed, developed, and tested an elegant Mood-Tracking Android Studio mobile application in a team of 6 developers using Google maps and Firestore API.
- Created a crime-statistic program with SQLite3 embedded Python with a terminal interface that allows the user to generate graphs and data using Edmonton's crime data.
- Created a Linux shell in C++ which handles running executable files, cd, PWD, file output redirect, and background process execution.
- Created an LPT-Johnson CPU Scheduling performance evaluator by creating 400,000 random file instances with the GNU Plot Software

My resume provides further detail about the unique skill set and passion I can bring to your team. I truly believe that my experience in programming coupled with my low-level knowledge in databases and computer architecture will allow me to excel in the STEMCELL systems development environment. I hope we can schedule an appointment to talk, thank you for the consideration.

Sincerely,

Allen Lu

UNIVERSITY OF ALBERTA - UNOFFICIAL RECORD

Student Name: Allen Peng Lu

(Surname last)

ID Number: 1498902

Month and Day of Birth: January 13 Date of Issue: 30-DEC-2019

September, 2016: Admitted to the Faculty of Science, Bachelor of Science General program.

Fall Term 2016 BSc General

			Grade	Units	Units	Grade	Class	Class	
Cours	е	Description	Remark	Taken	Passed	Points	Avg	Enrl	
BIOL	108	INTRO TO BIOLOGICAL DIVERSITY	B-	3.0	3.0	8.10	2.8	335	•
ECON	101	INTRODUCTION TO MICROECONOMICS	В	3.0	3.0	9.00	3.0	372	
ENGL	103	CASE STUDIES IN RESEARCH	В	3.0	3.0	9.00	2.8	40	
		Literature in the Wake of 9/	11						
MATH	114	ELEMENTARY CALCULUS I	C	3.0	3.0	6.00	2.6	140	
PHYS	124	PARTICLES AND WAVES	B-	3.0	3.0	8.10	2.7	210	
			TOTALS	15.0	15.0	40.20			

Winter Term 2017 BSc General

		Grade	Units	Units	Grade	Class	Class
Course	Description	Remark	Taken	Passed	Points	Avg	Enrl
ASTRO 122	ASTRONOMY OF STARS/GALAXIES	C+	3.0	3.0	6.90	2.6	180
EAS 100	PLANET EARTH	A-	3.0	3.0	11.10	2.7	261
ECON 102	INTRODUCTION TO MACROECONOMICS	B-	3.0	3.0	8.10	2.7	349
ENGL 102	INTRO TO CRITICAL ANALYSIS	B-	3.0	3.0	8.10	3.1	26
MATH 115	ELEMENTARY CALCULUS II	В	3.0	3.0	9.00	2.0	123
		TOTALS	15.0	15.0	43.20		

GPA: 83.40 grade points / 30.0 units taken = 2.8

Fall Term 2017 BSc General

		Grade	Units	Units	Grade	Class	Class
Course	Description	Remark	Taken	Passed	Points	Avg	Enrl
ANTHR 20	77 INTRO SOCIAL AND CULTURE ANTHR	B+	3.0	3.0	9.90	3.3	65
CMPUT 17	74 INTRO TO FNDTNS OF CMPUT I	B+	3.0	3.0	9.90	3.1	97
EAS 20	08 INTRO TO GLOBAL CHANGE	B+	3.0	3.0	9.90	3.4	117
SOC 22	25 CRIMINOLOGY	В	3.0	3.0	9.00	2.7	179
STAT 15	INTRO TO APPLIED STATISTICS I	В	3.0	3.0	9.00	2.2	186
		TOTALS	15.0	15.0	47.70		

Winter Term 2018 BSc General

		Grade	Units	Units	Grade	Class	Class
Course	Description	Remark	Taken	Passed	Points	Avg	Enrl
CMPUT 175	INTRO TO FNDTNS OF CMPUT II	B-	3.0	3.0	8.10	3.0	84
EAS 206	GEOLOGY OF THE SOLAR SYSTEM	B+	3.0	3.0	9.90	2.9	148
MATH 125	LINEAR ALGEBRA I	C-	3.0	3.0	5.10	2.7	150
PHIL 215	EPISTEMOLOGY	B+	3.0	3.0	9.90	2.8	29
STAT 252	INTRO TO APPLIED STATISTICS II	A	3.0	3.0	12.00	3.5	112
		TOTALS	15.0	15.0	45.00		

GPA: 92.70 grade points / 30.0 units taken = 3.1

September, 2018: Admitted to the Faculty of Science, Bachelor of Science with Specialization program, Computing Science - Software Practice.

September 04, 2018: Granted credit in all courses successfully completed at this University, 2016-2018. (60.0) Total units 60.00

Fall Term 2018 BSc with Specialization Computing Science - Software Practice

		Grade	Units	Units	Grade	Class	Class
Course	Description	Remark	Taken	Passed	Points	Avg	Enrl
CMPUT 201	PRACTICAL PROG METHODOLOGY	B-	3.0	3.0	8.10	2.4	86
CMPUT 272	FORMAL SYSTEMS & LOGIC	В	3.0	3.0	9.00	2.7	119
MATH 214	INTERMEDIATE CALCULUS I	B-	3.0	3.0	8.10	2.2	75
SOC 224	SOC OF DEVIANCE AND CONFORMITY	B+	3.0	3.0	9.90	3.0	223

TOTALS 12.0 12.0 35.10

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UNIVERSITY OF ALBERTA - UNOFFICIAL RECORD

Student Name:

Allen Peng Lu

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ID Number:

1498902

Month and Day of Birth: January 13

Date of Issue: 30-DEC-2019

Winter Term 2019	BSc with Specialization
WINCEL TELM ZULF	BSC WICH SPECIALIZACION

Computing Science - Software Practice

		Grade	Units	Units	Grade	Class	Class
Course	Description	Remark	Taken	Passed	Points	Avg	Enrl
CMPUT 204	ALGORITHMS I	A-	3.0	3.0	11.10	2.6	90
CMPUT 229	CMPUT ORG/ARCHITECTURE I	C+	3.0	3.0	6.90	2.2	57
CMPUT 291	FILE AND DATABASE MANAGEMENT	B+	3.0	3.0	9.90	2.9	123
		TOTALS	9.0	9.0	27.90		

GPA: 63.00 grade points / 21.0 units taken = 3.0

Fall Term 2019 BSc with Specialization

Computing Science - Software Practice

		Grade	Units	Units	Grade	Class	Class
Course	Description	Remark	Taken	Passed	Points	Avg	Enrl
CMPUT 301	INTRO TO SOFTWARE ENGINEERING		3.0	0.0	0.00	XXX	137
CMPUT 379	OPERATING SYSTEM CONCEPTS		3.0	0.0	0.00	XXX	43
OM 352	OPERATIONS MGMNT		3.0	0.0	0.00	XXX	278
		TOTALS	9.0	0.0	0.00		

Grades are Unofficial Until Approved by the Dean

Winter Term 2020 BSc with Specialization

Computing Science - Software Practice

		Grade	Units	Units	Grade	Class	Class	
Course	Description	Remark	Taken	Passed	Points	Avg	Enrl	
CMPUT 300	COMPUTERS AND SOCIETY		3.0	0.0	0.00	XXX	24	
CMPUT 325	NON-PROCEDURAL PROG LANGUAGES		3.0	0.0	0.00	XXX	111	
CMPUT 382	INTRO TO GPU PROGRAMMING		3.0	0.0	0.00	XXX	53	
MIS 417	TELECOMMUNICATIONS IN BUSINESS		3.0	0.0	0.00	XXX	45	
		TOTALS	12.0	0.0	0.00			
Grades are Unofficial Until Approved by the Dean								

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