

Allen Peng Lu

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

Skilled in the development and maintenance of elegant Android Studio mobile applications while meeting time constraints. Experienced in developing operating system components such as Linux Shells and Simulated File Systems. Well-versed in various algorithm design paradigms using discrete mathematics. Experienced in Object-Oriented design, analysis, and implementation in teams of 2-6 developers.

Core Competencies

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|---------------------|---------|------------------|
| • Python | • Java | • Android Studio |
| • Python SQLite3 | • C/C++ | • Mips Assembly |
| • Excel Forecasting | | |

Education

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- 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>

- Programmed in Java, tracks a user's emotional state and allows them to follow friends
- A collaboration of 6 group members using Github pull requests to encourage collaboration
- Google Maps and Firestore API to keep track of user moods, times, dates, reasons, and location
- Extensive Revisioning of App Interfaces to provide an eye-pleasing interface
- Weekly team meetings, remote communication with discord, and extensive UML re-versioning

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 for graphs and statistics generated from menu queries

LPT-Johnson Scheduling Program (September 2019 – December 2019)

File Instance Generator and Average Plotter

Github Link: <https://github.com/ApluUalberta/LPT-Johnson-Scheduler>

- Takes in files (-i argument) or generates 400,000 random files instances (-r argument) with the specified format
- Schedules a specified number of jobs with a specified size and number of machines using LPT and Johnson Algorithms to read the instance files
- Takes the average ratios of processing time of specified file groups for the given algorithms and plots them on 2d, and 3d graphs using GNU Plot

Hobbies

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

Allen Lu

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January 12, 2020

Heather Finn

STEMCELL Technologies

1618 Station Street

Vancouver, BC V6A 1B6

Re: R&D 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, it is with great excitement that I have submitted my resume for consideration for an 8-month R&D intern position with STEMCELL Technologies Vancouver. As an efficient and vocal team-oriented developer I have experience in Android mobile application development, testing, and presentation in addition to Excel business forecasting and logistics to manage important organizational data. I am prepared to contribute to your company's technological goals in developing enticing infographics and job aids and acquiring survey and attendance logistics through programmable software while effectively managing calendars and room bookings.

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 and efficient 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.
- Currently developing a custom Arduino lock for a powerlifting gym while listening to customer concerns and criticisms to create newer and improved versions.
- Successfully managed 2 online consulting businesses with a consistent emphasis on customer surveys, and criticism.

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 knowledge in excel operation management will allow me to thrive in the STEMCELL R&D 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

Course	Description	Grade Remark	Units Taken	Units Passed	Grade Points	Class Avg	Class Enrl
BIOL 108	INTRO TO BIOLOGICAL DIVERSITY	B-	3.0	3.0	8.10	2.8	335
ECON 101	INTRODUCTION TO MICROECONOMICS	B	3.0	3.0	9.00	3.0	372
ENGL 103	CASE STUDIES IN RESEARCH Literature in the Wake of 9/11	B	3.0	3.0	9.00	2.8	40
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

Course	Description	Grade Remark	Units Taken	Units Passed	Grade Points	Class Avg	Class 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	B	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

Course	Description	Grade Remark	Units Taken	Units Passed	Grade Points	Class Avg	Class Enrl
ANTHR 207	INTRO SOCIAL AND CULTURE ANTHR	B+	3.0	3.0	9.90	3.3	65
CMPUT 174	INTRO TO FNDTNS OF CMPUT I	B+	3.0	3.0	9.90	3.1	97
EAS 208	INTRO TO GLOBAL CHANGE	B+	3.0	3.0	9.90	3.4	117
SOC 225	CRIMINOLOGY	B	3.0	3.0	9.00	2.7	179
STAT 151	INTRO TO APPLIED STATISTICS I	B	3.0	3.0	9.00	2.2	186
TOTALS			15.0	15.0	47.70		

Winter Term 2018 BSc General

Course	Description	Grade Remark	Units Taken	Units Passed	Grade Points	Class Avg	Class 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**

Course	Description	Grade Remark	Units Taken	Units Passed	Grade Points	Class Avg	Class Enrl
CMPUT 201	PRACTICAL PROG METHODOLOGY	B-	3.0	3.0	8.10	2.4	86
CMPUT 272	FORMAL SYSTEMS & LOGIC	B	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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Winter Term 2019

**BSc with Specialization
Computing Science - Software Practice**

Course	Description	Grade Remark	Units Taken	Units Passed	Grade Points	Class Avg	Class 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**

Course	Description	Grade Remark	Units Taken	Units Passed	Grade Points	Class Avg	Class 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**

Course	Description	Grade Remark	Units Taken	Units Passed	Grade Points	Class Avg	Class 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		

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