**Allen Peng Lu**

**11120 76 Ave NW** Edmonton, AB. T6G 0J8 || Phone:  604-788-6862

E-mail:  [aplu@ualberta.ca](mailto:aplu@ualberta.ca)

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

Actively seeking a Computing Science Internship in Android App Development or General Software Development. My Ongoing personal projects with Android Studio and general programming background in multiple Languages will offer great insight and skill to any development team.

**Education**

* Computing Science, University of Alberta (Sept 2016 – Scheduled for April 2021)
  + Completed CMPUT 174 – Computational Foundations I
  + Completed CMPUT 175 – Computational Foundations II
  + Completed CMPUT 272 – Logic and Formal Systems
  + Completed CMPUT 204 – Algorithms I
  + Completed CMPUT 229 – Computer Organization and Architecture I
  + Completed CMPUT 291 – File and Database Management
  + Completed CMPUT 201 – Programming Methodology
  + Completed CMPUT 301 – Intro to Software Engineering
  + Completed CMPUT 379 – Intro to Operating Systems

**Personal Projects**

**Weightlifting Android Studio Project (April 2019 – Present)**

Gravity – Android Mobile App

Github Link: <https://github.com/ApluUalberta/Gravity>

* Android Mobile Phone Application suited for Powerlifting-specific weightlifting
* Utilizes Google Firestore API to keep track of User Data, progress, and achievements
* Creates a game-like achievement system that compares User’s progress to real Powerlifting Federations
* Plots user work-out numbers on a line graph that can be found under the user’s profile
* Integrated 1-rep-max calculator that auto-updates the user’s achievements and progress

**MoodTracker Android Studio Project (September 2019 – December 2019)**

Glo – Android Mobile App

Github Link:[**https://github.com/ApluUalberta/GroupProject1**](https://github.com/ApluUalberta/GroupProject1)

* Android Mobile Application to track a User’s moods
* Utilizes Google Firestore to keep track of User Mood History, specific mood reasons, social situations, reasons, and locations
* Allows user profiles to interact with other users to request and approve followers
* Uses Google Maps API to display moods on a map, as well as a map for a followed user’s most recent mood.

**LPT-Johnson Scheduling C 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 File instances (-r argument) with Specific format
* Schedules 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

**Skills and Qualifications**

* 9 Months of Python Programming Experience
* 4 Months of Java Experience
* 7 Months of Android Studio Experience
* 1 Year of C/C++ Programming experience
* 4 Months of SQL/Python database Programming

**Hobbies**

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