**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/>

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.

**Areas of Expertise**

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| --- | --- | --- |
| * 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>

* Programmed in Java, tracks a user’s emotional state and allows them to follow friends
* 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 eye-pleasing interface
* Weekly team meetings, remote communication with discord, and extensive UML reversioning

**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
  + Each Require Additional input, such as year

**Hobbies**

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