**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/>

Experienced in Object-Oriented design, UI design, and agile scrum test-driven development in teams of 3-6 to exercise creativity, initiative, and synergy. Skilled in database programming, while building and maintaining mobile applications while meeting stringent time constraints. Well-versed in various algorithm design paradigms using discrete mathematics.

**Core Competencies**

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| * Python | * Java | * Android Studio |
| * Python SQLite3/SQL | * Github Workflows | * SQL/SQLite 3 |

**Education**

* Computing Science, 3rd Year, University of Alberta (Sept 2016 – May 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
* Extensive front-end unit testing to test and improve UI design and troubleshoot module bugs
* A collaboration of 6 group members using Github pull requests and SCRUM to encourage collaboration
* Google Maps and Firestore API to keep track of user data (moods, times, dates, reasons, and location)
* Weekly scrum meetings with agile principles in mind, remote communication with discord, and
* Extensive UML re-versioning and UI Mockup documentation revisioning and test redesigning

**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/SQL 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

**Bike ride Tracking Android Studio Project (September 2019 – October 2019)**

RideBook – Android Mobile App

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

* Android Mobile Phone Application to track the bike rides of a given user
* Allows user to record a Ride’s date, time, distance ridden, speed, cadence, and notes.
* Enforces proper time and date format
* Displays in a listview like a phone contacts application
* Programmed in Java

**Hobbies**

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