

# Allen Peng Lu

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Self motivated computer science student skilled in building and maintaining mobile applications while meeting time constraints. Well-versed in mobile user interface design and database programming and management. Experienced in Object-Oriented design, analysis, and prototyping in teams of 3-6 developers with various platforms, software tools, and frameworks.

## Core Competencies

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|------------------|---------|------------------|
| • Python         | • Java  | • Android Studio |
| • Python SQLite3 | • C/C++ | • Mips Assembly  |
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## Education

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- Computing Science, 3<sup>rd</sup> Year, University of Alberta (Sept 2016 – Scheduled for April 2021)

## Personal Projects

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### Git handle: AplUAlberta

#### 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 and SCRUM 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

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

Gravity – Android Mobile App

Github Link: <https://github.com/AplUAlberta/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
- An integrated 1-rep-max calculator that auto-updates the user's achievements and progress

#### Crime Statistics Database Program (March 2019 – April 2019)

Crime Statistics UI - Edmonton Open Data Initiative

Github Link: <https://github.com/AplUAlberta/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
  - o Each Require Additional input, such as year

## Hobbies

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