**Allen Peng Lu**

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Skilled in the deployment and maintenance of elegant Android Studio mobile applications. 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 Firestore API to keep track of user moods, times, dates, reasons, and social situations
* Google Maps API to keep track of mood locations
* Weekly Scrum 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
* Integrated Pandas and Folium libraries to plot queried data onto graphs

**Hobbies**

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