Allen Peng Lu

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Self motivated computing science student skilled in building and maintaining mobile applications while meeting stringent time constraints. Well-versed in various algorithm design paradigms using discrete mathematics. Experienced in Object-Oriented design, analysis, and prototyping in teams of 3-6 developers to exercise creativity, initiative, and synergy.

Core Competencies

• Python	• Java	• Android Studio
• Python SQLite3/SQL	• C/C++	• SQL/SQLite 3

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
- 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)
- Extensive Design revisioning and development of front-end user interface and testing
- Weekly scrum meetings with agile principles in mind, remote communication with discord, and extensive UML re-versioning
- Required a presentation demo in front of 50 non-technical audience members

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

Linux Shell in C++ (September 2019 – October 2019)
Dragonshell – Linux Shell
Github Link: https://github.com/ApluUalberta/Dragonshell
- C++ program that uses System calls to create a Linux terminal shell when run
- Supports CD, PWD, A2PATH, object file execution, file output redirect, background process execution, and signal interrupts
- Extensive use of GNU C Library System calls on 32-bit Linux Machines

Hobbies

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