**Allen Peng Lu**

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Skilled in the development and maintenance of elegant mobile applications while meeting time constraints. Experienced in creating embedded query database programs, database relationships, and querying with database API. Well-versed in implementing optimal algorithm design paradigms to app development and UI navigation. Experienced in Object-Oriented design, analysis, and implementation in teams of 2-6 developers.

**Core Competencies**

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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>

* A collaboration of 6 group members using Github pull requests to encourage collaboration
* Google Maps and Firestore-hosted workloads to keep track of user moods, times, dates, reasons, and location
* Extensive Revisioning of App Interfaces to provide an eye-pleasing interface
* Tasked with automated UI testing to ensure product was presentable, fast, and effective
* Presented the final product to 50 non-technical people

**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

**Paper Review Database Program (February 2019 – Marcher 2019)**

Paper Reviewing Terminal UI – Presentation Paper Database

Github Link: <https://github.com/ApluUalberta/Paper-Review-Database-Program/tree/master/src>

* Simple Command Line Interface that allows for 7 complex database queries on a given Database
* Embedded SQLITE3 Queries in Python to generate query data on Linux terminal UI
* Imported Pandas and matplotlib Libraries to plot queried data onto graphs
* Queries and UI tested extensively with various sample databases of different sizes

**Hobbies**

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