

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

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- 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 – March 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

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