

Allen Peng Lu

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Skilled in the deployment and maintenance of elegant Android Studio mobile applications. Hometown is in Vancouver and seeking an 8-month internship opportunity. Experienced in developing operating systems and hardware computer components such as Linux Shells and Arduino Projects. Well-versed in various algorithm design paradigms using discrete mathematics. 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 | • Microsoft Office | |

Education

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

Personal Projects

Git handle: ApluUalberta

Arduino Powerlifting Lock Box (December 2019 – Present)

Chalk Bowl Locking Mechanism – Arduino Uno

- Programmed Arduino Project to make a Weightlifting Chalk bowl lockable
- 4-digit keypad verification password Solenoid Door lock mechanism with a 6V Relay
- Secured in a locked Plywood container, attached to a hinge and a lid.
- Upgrades and fixes are drawn and implemented after listening to user feedback on design flaws

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 to encourage collaboration
- Google Maps and Firestore API to keep track of user moods, times, dates, reasons, and location
- Tasked with extensive UI and Back-end Module Testing for Low and High-level bugs.
- Weekly team meetings, remote communication with discord, and extensive UML re-versioning

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 for graphs and statistics generated from menu queries

Hobbies

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