**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 8-month internship opportunity. Experienced in developing operating system and hardware computers 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.

**Areas of Expertise**

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| --- | --- | --- |
| * Python | * Java | * Android Studio |
| * Python SQLite3 | * C/C++ | * Mips Assembly |
| * Excel Forecasting Simulations | * Microsoft Office |  |

**Education**

* 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 passward 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 done 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
* 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

**Hobbies**

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