**ZHONGHAO LU** <https://github.com/HumphreyLu6>

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**PROFILE SUMMARY**

Resourceful and dedicated graduate solution-oriented computer scientist well-versed in software development, data science, and project management. Fast learner with the ability to effectively manage and operate within an assigned department to ensure flawless execution of a given project in both team and self-led settings. Talented communicator with excellent multitasking and problem-solving skills to support operational strategies in partnership with the senior leadership to achieve optimal results, growth objectives, and overall performance goals. Solid knowledge of software development and management, as well as utilizing frameworks and libraries for developing high-quality applications. Seeks to leverage skills and expertise in an entry-level cloud computing role within big tech companies.

**TECHNICAL PROFICIENCIES**

**Languages:** Python, C#, Java, SQL, C, C++, JavaScript, HTML, CSS.

**Database Management:** SQLite, MySQL

**Tools/Technologies:** OS, Shell/Scripting, Git, Pytorch, OpenGL, Machine Learning

**EDUCATION & ACHIEVEMENTS**

**University of Alberta 09/2016 – 06/2020**

B.Sc. in Computer Science (GPA:3.5)

Faculty of Science Undergraduate Scholarship (2018)

Dean’s Honour Roll (2018,2019)

**CORE COMPETENCIES**

* Software Application Development
* Database Management
* Robotics & Programming
* Project Management
* Team Collaboration
* Data Science
* Testing & Debugging
* Architectural Designs
* Product Development
* Distributed System
* Relationship Buildings
* Cloud Computing

**WORK EXPERIENCE**

**Hole School of Construction Engineering, Edmonton, Alberta 01/2019 – 08/2019**

Software Developer Intern

* Demonstrated expertise in designing and developing Windows platform applications for civil engineering solutions using .NET and C#
* Played key role within a team of 8 responsible for gathering requirements, evaluating and modifying project designs while implementing process improvement initiatives and solutions
* Leveraged skillset in analyzing pull requests, testing new features, and fixing bugs

**PROJECT EXPERIENCE**

**SpongeBook**

* Conceptualized and developed a distributed web-based social networking application using Django Rest Framework and MVT pattern
* Stellar record in designing and implementing web interfaces with JavaScript library React, Ant Design, HTML and CSS
* Completed the deployment phase on the Heroku platform

**FrameX**

* Consistently met and exceeded clients’ expectations through initiating object-oriented design concept in designing projects solutions
* Utilized C# and .NET for programming functions and JSON for saving data after serialization

**Medical Tracker**

* Partnered with a team of 5 to design and develop an android application using Java
* Employed the use of Google Maps API provided by Google Cloud Platform for implementing location features and functions
* Accomplished in using Elasticsearch search engine for querying information while storing data on an HTTP web interface

**Classification and Bounding Box Detection on MNISTDD**

* Proven success in using Pytorch for training VGG and Fast RNN related neural networks with 60000 images from MNISTDD dataset on Google Colab GPU
* Achieved a classification accuracy of 98.87% and bounding box detection of 88.42%