**ZHONGHAO LU**

**PROFILE SUMMARY**

Resourceful and dedicated graduate solution-oriented computer scientist well-versed in software development, data science, and project management. Solid knowledge of programming robotics with ROS, processing sensor data using OpenCV and NumPy, as well as utilizing state machine architecture for developing complex robot behaviors. 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. Seeks to leverage skills and expertise in an entry-level cloud computing role within big tech companies.

**TECHNICAL PROFICIENCIES**

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

**Database Management:** SQLite, MySQL

**Tools/Technologies:** OS, Linux, Git, Pytorch, OpenGL, Neural Networks, Machine Learning, Reinforcement Learning

**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**

**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**

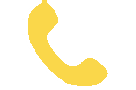
* Proven success in using Pytorch for training VGG and Fast RNN related neural networks with 60000 images from MNISTDD dataset on Google Colab GPU
* Achieved a classification accuracy of 98.87% and bounding box detection of 88.42%

**SpongeBook**

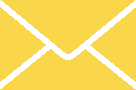
* Conceptualized and developed a distributed web-based social networking application using Django Rest Framework and MVT pattern
* Stellar record in designing and implementing web interfaces with JavaScript library React, Ant Design, HTML and CSS
* Completed the deployment phase on the Heroku platform

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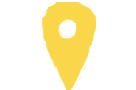
**CONTACT**



(780)-707-5818



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Edmonton, Canada

**EDUCATION**

**University of Alberta**

**(09/2016 – 04/2020)**

B.Sc. in Computer Science

**GPA:3.5**

**HONORS**

Faculty of Science Undergraduate Scholarship

Dean’s Honour Roll (2018,2019)

**CORE COMPETENCIES**

Cloud Computing

Database Management

Software Application Development

Robotics & Programming

Project Management

Team Collaboration

Data Science

Testing & Debugging

Architectural Designs

Product Development

Distributed System

Relationship Buildings