# YEWIN SHU

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## EDUCATION

Queen's University, Ontario, Canada                           Expected in May 2021

Bachelor of Computing (Diploma with Honors)              GPA: 3.8/4.3 (2019-2020)

*Related Coursework*: Algorithm Design, Software Design, Operating Systems, Data Structures and Analysis, Databases, Programming on Web, Human-Computer Interaction, Neural networks.

## AWARDS AND SCHOLARSHIPS

**2019-2020 Fall//Winter Session- Dean's list Scholar in** Faculty of Arts and Science, cumulative **GPA of 3.5 higher**, high academic achievement, Queen's University

## PROJECT HIGHLIGHTS

**Administrative Database for** *Experiential Learning Program(Co-op)   Sept.2020 – present*
- Acted as a team leader and worked with a team of four in developing a intuitive and user friendly front-end user interface;
- Developed an easily accessible database for Queen's health and science Experiential Learning Program. The database included information about meeting schedules, patience information, and session reports;
- Designed database application using HTML, Bootstrap CSS frame, Node.js, JavaScript and SQL queries;
- Allowed databased to be easily accessed from Windows and IOS system as well as compatible with existing University servers.

**Artificial Intelligence and Neural Network Construction**                 *Sept. – Dec. 2019*
- Successfully implemented training algorithm in multilayer neural network for classifying handwritten characters using Python and C++;
- Comprehended and organized training dataset and corresponding label dataset;
- Innovatively integrated TensorFlow (with Keras) with Google Collab environment for training and testing;
- Explored built-in libraries for creating a perception, train, and test model.

**Full stack online banking system development** *Sept. – Dec. 2019*
- Acted as project leader to coordinate team members with different skill sets;
- Created a full-stack online banking system prototype that monitors transactions;
- Adopted black box and white box testing methods to cover testcase and performed 100% code coverage using java (1000+ lines).

**Human Computer Interaction (HCI) Design** *Jan.- Feb. 2019*
- Worked and communicated with software engineers on the construction of smart furniture system prototype which involved the use of MYO Armband and Raspberry Pi;
- Created an embedded system program that allow the use of gestures to give commands to household application devices such as smart locks and lights;
- Gained experience working and designing circuit panel that included all the functionalities of smart furniture.
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**Construction of Business Analysis Tool** *Sept. – Dec. 2018*
- Completed a business analysis toolbox for performing error analysis and automating the error comparison graph plotting process;
- Gained strong experience in the implementation of PCA using MATLAB.

## PROFESSIONAL WORK & INTERNSHIPS

**Business Assistant Intern**, **Huaxia Hanhua Chemical Equipment Corp. (Member of ChemChina)** *Summer 2017*
- Self-taught HTML, CSS, and PHP, and participated in development of company website;
- Participated in a team of six in developing new financial management software;
- Developed company procedures and guidelines for data analysis and security which were reviewed and approved by senior leadership team;
- Documented organized, planned, launched, and led an entire project of pipeline supply for an external costumer and was responsible for translation (Chinese to English) of all communication documents.

## TECHNICAL SKILLS

**Artificial Intelligence**: TensorFlow, Google Colab
**Opensource Platform**: Github
**Microsoft Office**: Experienced in Word, PowerPoint, Excel, and Access
**Programming Languages**: Java JavaScript, Python, R, HTML, CSS, C++, C#, ASP, PHP, SQL, MATLAB, Prolog
**Operating Systems**: MacOS, Linux, Windows 10/9/7, Raspberry-pi
**Database systems**: MySQL, HBase, Neo4j, MongoDB, DBaaS
**Other Tools**: Git, Docker, Kubernetes, Terraform, Helm, Node.js, PyTorch, TensorFlow

## SOFT SKILLS

- Communication
- Decision making
- Self-motivation
- Leadership
- Ability to work under pressure
- Time management
- Conflict resolution
- Adaptability