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KYNAN T. LY

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EMPLOYMENT

Electronic Representative	**London Drugs**	**2015**

- Identify needs of customers.
- Provided troubleshooting for electronic devices and services if applicable.
- Cooperated/Coordinated with other electronic departments to become a more dynamic team.

EDUCATION

Edmonton AB	**University of Alberta**	**Fall 2013 – Expected April 2017**
BSc with Specialization in Computing Science, GPA: 3.2		April 2015 – Expected April 2017
BSc General Computing Science,		September 2013 – April 2015

- Undergraduate Coursework: Operating Systems; Databases; Software Engineering; Programming Languages; Comp. Architecture; Compliers; Advance Game Programming; Computer Networks; Image Processing; Functional Languages.

TECHNICAL EXPERIENCE

Current Projects

- **Software Engineer (Django, Python, HTML, PostgreSQL, Selenium).** Creation of a database web application for University of Alberta researchers that can both handle large amount of data as well query the data.
- **Image Processing (Python, OpenCV).**   Learning the basic of image processing.
- **Implementation of pathfinding algorithm and AI (C#).** Tasked to implement pathfinding algorithm and AI into a turn-based isometric strategy game.

Projects (Completed)

- **Database (Python, SQL, RDF)**. Convert RDF database/queries into SQLite database/queries. Find shortest distance between 2D objects using values from the online database for locations. Created a database in SQL for vehicle registration.
- **Gazprea Complier (Java, C, ANTLR, Gazprea)**. Created a complier for a programming language (Gazprea) design by IBM as well as all the associated test code for edge cases and functionality.
- **Operating System (C)**. File permissions, Scheduling, and forking.
- **Advance Game Programming (C++).** Pathfinding Algorithm (AStar), Implementation of a StarCraft Broodwar AI
- **Software Engineer (Java).** Created an application that allows the user to post items for trade on a server. Implemented the ability for the user to make request offline and online. Implemented automatic test to ensure functionality.
- **Functional Programing (Lisp, Prolog).** Created solution to the problem sets in both languages efficiently.

ADDITIONAL EXPERIENCE AND AWARDS

- **HackEd 2017:** Worked on a python based sound system, where based on the position of the window it would alter the source location with respect to the window.
- **High School Speak Completion:** Awarded third place in Alberta's Regional Speech Competition in impromptu speech
- **Volunteer Organizations:** Scarecrow Festival, Festival of Trees, John Humphrey Centre for Peace and Human Rights, Self Advocacy Federation**.**
- **McNally High School Chinese Culture Club:** Participated in Dragon Dance Performance, Supervised and instructed new members of the club to the routine.
- **McNally Student Union:** Active member in Student Union activities from 30Hour Famine to McNally Bikeathon.

Languages and Technologies

- C++; C; C#; Java; Python; SQL; RDF; Lisp; Prolog; MIPS; ARM; x86; LLVM; Django; HTML;
- Visual Studio; Android Studio; IntelliJ; OpenCV; PostgresSQL, Selenium