JAY KIM

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EDUCATION

Honours Bachelor of Computer Science
Wilfrid Laurier University
2015 - 2020

Programming Coursework:
- Algorithm & Data Structure
- Operating Systems
- Image Processing
- Artificial Intelligence
- Data Visualization
- Compiler

Business Coursework:
- Organizational Behaviour
- Business Law
- Entrepreneurship
- Managerial Accounting

Extra-Curricular:
- Boxing Club
- Laurier Accounting Association

SKILLS

SOFTWARE
- Python
- Java
- Unix/Linux
- MongoDB
- Git
- HTML/CSS/JavaScript
- Express.js/Node.js
- React
- C
- ARM
- PHP
- MySQL

INTERESTS

- Custom Keyboards
- Cooking
- Boxing
- E-Sports
- Economics

SOFTWARE PROJECTS

RECIPE FINDER
GITHUB.COM/JAYKIM97/RECIPEFINDER
- Developed a web application using flask and firebase that greatly minimized user effort when searching for a recipe corresponding with ingredients on a store receipt
- Created a recipe database from scraping and parsing **7000+ online recipes**
- Enabled app to detect ingredients from a receipt using OpenCV and natural language processing
- Utilized: Python, Flask, Firebase, OpenCV, NLTK, Beautiful Soup 4

ASCII ART CREATOR
GITHUB.COM/JAYKIM97/JPEG2ASCIIFLASK
- Engineered a program that allows users to create ASCII art from an image, with **automatic size and shade adjustments** for optimal results
- Incorporated OpenCV to allow for modification of image colour matrices, which allows the program to replace pixels with characters depending on the B/W level and coordinate of each pixel
- Utilized: OpenCV, Pillow, Numpy, Flask

E-COMMERCE WEBSITE TEMPLATE
GITHUB.COM/JAYKIM97/ECOM
- Designed and developed an e-commerce website template using Node.js and Express.js.
- Implemented **user authentication, email alerts, and PDF purchase receipts** to increase website security and enhance user experience.
- Implemented database using MongoDB, and hosted by MongoDB Atlas.
- Utilized: Express.js, Mongoose, Express-Session, NoSQL

LEXICAL ANALYZER
GITHUB.COM/JAYKIM97/LEXICAL-ANALIYZER
- Built an generic programming language tokenizer/parser using Java
- Implemented a custom regular expression identifier to tokenize and output text into an HTML file
- Designed a parser that converted the tokenized set into an assembly language
- Utilized: Java, HTML, Linux

EMPLOYMENT

FREELANCE WEB DEVELOPER
TORONTO, ON | 2018-PRESENT

- Assisted clients in improving website functionality and design by accessing my clients' business requirements, understanding target market's user profiles, designing a seamless and customized user flow
- Increased the efficiency of resource allocation through utilizing existing assets and prioritizing features based on impact to the user experience
- Learned various platforms and languages such as WordPress, PHP, and MySQL within 3-5 days to meet specific client requirements
- Stack: HTML5, CSS, JS, PHP, MySQL, Rapid Prototyping

SOFTWARE DEVELOPER - PROJECT COORDINATOR
BAYSIDE ROWING CLUB | TORONTO, ON | 2016

- Automated the information collection process for 600+ local businesses in the GTA by creating a custom python scraper, which reduced resource cost by 75%. Accelerating process from **2 weeks to single day**.
- Developed an excel VBA script to **eliminate contact redundancy**
- Effectively engaged 100+ businesses by designing a targeted contact strategy that segmented businesses, and created customized sales pitches to target each segment
- Stack: Python, VBA, Strategic Marketing