PAULINA GRACE KHEW

SYSTEMS DESIGN ENGINEERING AT THE UNIVERSITY OF WATERLOO

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TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C++, PHP, HTML, CSS   **Python Libraries:** Pandas, Beautiful Soup, Keras
Frameworks, Libraries, and Tools: Django, Flask, Git, React.js, SQLite3, PostgreSQL, Laravel, Jupyter Notebooks, Bootstrap, jQuery

WORK EXPERIENCE

ApplyBoard
Kitchener, ON
Sep – Dec 2019

FULL-STACK SOFTWARE ENGINEER
- Worked on an intermediary **Flask** service that utilizes **webhooks** to **parse** and **classify** incoming emails and automates tasks such as updating profiles and sending notes to students on the ApplyBoard platform
- Spearheaded a **machine learning** project that performs **sentiment analysis** on incoming emails and flags urgent emails on **FrontApp**, a corporate email platform used by the Customer Experience team
- Automated the login, autofill, and submission of applications on various school portals such as **OCAS** and **OUAC** using a **Google Chrome extension** written in **JavaScript** and **Jquery**
- Developed a **React** dashboard to be used by the commissions team that interacts with an **SQL database**

Fairtax
Oakville, ON
Jan – Apr 2019

JUNIOR SOFTWARE DEVELOPER
- Developed, designed, deployed, and tested features for the **Django** GrantMatch app using **Python**
- Automated the manual process of creating marketing PDFs by developing a section on the **PHP** FTXGrants system that automatically renders data into a PDF using **HTML**, **CSS**, and **JavaScript** through **PhantomJS**
- Utilized the **Pandas** and **Beautiful Soup** Python libraries to perform **data analysis** to scrape and clean Historical Approvals data using **Jupyter Notebooks**
- Communicated **data science** concepts during hour-long daily teaching sessions

CODING PROJECTS

Byte Academy
New York, NY
Jul 2018 – Present

WEB TRADER (github.com/Paulinakhew/web_trader)
- Constructed a **Flask** web application for trading **Nasdaq** stocks using the *Intrinio* stock quote **API**
- Employed **SQL** and **Python** to create and interact with **SQLite3** databases used to store user information, transactions, and holdings

Self-Learning
Kitchener, ON
Dec 2019

IMAGE CLASSIFICATION (github.com/Paulinakhew/image_classification)
- Taught myself how to create **deep learning models** for **image classification** using Python's **Keras** library
- Trained an **image classification** model for verification of uploaded documents in an **OCR** project at **ApplyBoard**

Hack the Valley
University of Toronto
Toronto, ON
Feb 2018

OUTWEATHER (github.com/Paulinakhew/outweather)
- Created a **Python Flask** web application that **displays the weather** and **suggests outfits and accessories** based on the user's location and information from the *OpenWeatherMap* **API**
- Implemented **modularization** and **Git Flow** to streamline the collaborative workflow with team members

EDUCATION

University of Waterloo
Waterloo, ON
Sep 2018 – Apr 2023

CANDIDATE FOR BACHELOR OF APPLIED SCIENCE (BASc)
- **Motorola Engineering Scholarship –** presented annually to one outstanding student entering first year
- **University of Waterloo President's Scholarship –** awarded to students with admission averages above 90%
- Learned **object-oriented programming** in **C++** in Digital Computation and Data Structures and Algorithms courses

Byte Academy
New York, NY
Jul 2018 – Sep 2018

CERTIFICATE OF COMPLETION OF PYTHON FULLSTACK IMMERSIVE COURSE
- Successfully completed a 240-hour curriculum of study in full-stack web development program learning **Python**, **SQL**, **Pandas**, **JavaScript**, **Flask,** and **Django** as well as how to navigate the **Linux operating system**
- Utilized **peer programming** and **MVC design pattern** throughout development of the Web Trader application

HOBBIES AND ACTIVITIES: Running, working out, bullet journaling, sketching, reading, playing piano, solving puzzles