PAULINA GRACE KHEW

SYSTEMS DESIGN ENGINEERING AT THE UNIVERSITY OF WATERLOO

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TECHNICAL SKILLS

Languages: Python, PHP, JavaScript, Ruby, SQL, C++, HTML

Frameworks and Tools: Flask, Django, Laravel, Slim, Git, Kubernetes, Docker, Jupyter Notebook, PostgreSQL Libraries: Pandas, jQuery, Bootstrap, SQLite, NumPy, Keras, BeautifulSoup, React, Pygame, PhantomJS

Awards: Motorola Engineering Scholarship, University of Waterloo President's Scholarship

WORK EXPERIENCE

Shopify

Toronto, ON Jan – Aug 2021

SOFTWARE DEVELOPER | DOCS AND API LIBS TEAM (Internship + Part Time)

- Contributed to the open-source tools owned by Shopify, including the **Python** Shopify **API library**, the Shopify app **command line interface (CLI)** in **Ruby**, and the Shopify **Django** example application made in **Python**
- Created an open-source PHP library that acts as a framework-agnostic wrapper for the Shopify Admin API
- Built a sample Shopify Laravel application for third-party developers to reference when building applications using the Shopify Admin API that performs authentication using OAuth and makes GraphQL requests

ApplyBoard

Kitchener, ON May – Dec 2020

SOFTWARE ENGINEER | AUTOMATION TEAM (Internship + Part Time)

- Solely responsible for OCR project that processes various documents using OpenCV and Google Cloud Vision
- Implemented preprocessing techniques such as adaptive thresholding, image rotation, and face detection to raise the accuracy of parsing data from passports, IELTS, and Aadhar documents by over 30%
- Investigated and implemented new technologies by creating technical proposals, user walkthroughs, and demos

ApplyBoard

Kitchener, ON Sep – Dec 2019

SOFTWARE ENGINEER | AUTOMATION TEAM (Internship)

- 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
- Worked on an intermediary API server using Flask 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
- Automated the login, autofill, and submission of applications on various school portals using a **Google Chrome** extension written in JavaScript and jQuery using student profile information from ApplyBoard.com
- Developed a React dashboard to be used by the commissions team that interacts with backend

Fairtax

Oakville, ON Jan 2019 – Apr 2020

JUNIOR SOFTWARE DEVELOPER (Internship + Part Time)

- Designed, developed, deployed, and tested features for the Django GrantMatch app using Python
- Created a section on the PHP GrantMatch system that dynamically renders website information into a marketing PDF using HTML, CSS, and JavaScript through PhantomJS, a scriptable headless web browser
- Performed data analysis with Pandas and BeautifulSoup to scrape and clean data within Jupyter Notebooks

CODING PROJECTS

Hack the Valley

Toronto, ON Feb 2019

OUTWEATHER

 Created a Python Flask web application that displays the temperature and the weather conditions from the OpenWeatherMap API and suggests outfits and accessories based on the user's location

Byte Academy

New York, NY Jul 2018

WEB TRADER

- Constructed a Flask web application for buying and selling Nasdaq stocks using the Intrinio stock quote API
- Employed SQL and Python to create and update SQLite3 databases used to store user and transaction data

Other

SPOTIFY PLAYLIST GENERATOR, GITHUB FOLLOWERS CHECKER

EDUCATION

University of Waterloo

Waterloo, ON Sep 2018 - Apr 2023

BACHELOR OF APPLIED SCIENCE (BASc) IN SYSTEMS DESIGN ENGINEERING

- Learned object-oriented programming in C++ in Digital Computation and Data Structures and Algorithms courses
- 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%

Byte Academy

New York, NY Jul 2018 – Sep 2018

PYTHON FULL-STACK IMMERSIVE BOOTCAMP

• 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**