

PAULINA GRACE KHEW

SYSTEMS DESIGN ENGINEERING AT THE UNIVERSITY OF WATERLOO

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TECHNICAL SKILLS

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

Frameworks and Tools: Flask, Django, Laravel, Slim, Git, Rails, Docker, Jupyter Notebook, PostgreSQL

Libraries: Pandas, jQuery, Bootstrap, SQLite, NumPy, Keras, BeautifulSoup, React, Pygame, PhantomJS

WORK EXPERIENCE

Shopify

Toronto, ON

Sep 2021 – Present

SOFTWARE DEVELOPER | BILLING PLATFORM TEAM (Internship)

- Building the tools and primitives that allow teams at Shopify to bill their users for the services they provide
- Implementing a **Ruby on Rails** tool in Shopify's internal billing dashboard that parses csv files and assigns promotional credits in bulk, automating the process of individually assigning credits to thousands of shops

Shopify

Toronto, ON

Jan – Aug 2021

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

- Contributed to open-source tools owned by Shopify, including the **Python** Shopify API library, the Shopify **Django** App, the Shopify app **command line interface (CLI)** in **Ruby**, and the Shopify **Node** API library built in **TypeScript**
- Produced an open-source framework-agnostic **PHP** library that acts as a wrapper for the **Shopify Admin API**
- Launched the **PHP Shopify API Library** in under two months, allowing third-party developers to create online and offline access tokens using **OAuth**, make **REST** and **GraphQL** requests, and register and process **webhooks**
- Created a **Laravel** application for third-party developers to reference when using the **PHP Shopify API Library**

ApplyBoard

Kitchener, ON

May – Dec 2020

SOFTWARE ENGINEER | AUTOMATION TEAM (Internship + Part Time)

- Led development on an **OCR** project that processes document images using **OpenCV** and **Google Cloud Vision**
- Implemented **preprocessing techniques** such as adaptive thresholding, image rotation, and face detection to raise the accuracy of parsing information from passports, IELTS, and Aadhar documents by **over 30%**

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

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

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

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**