

PAULINA GRACE KHEW

SYSTEMS DESIGN ENGINEERING AT THE UNIVERSITY OF WATERLOO

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paulinakhew.me

github.com/Paulinakhew

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TECHNICAL SKILLS

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

Python Libraries: Pandas, Beautiful Soup

Frameworks, Libraries, and Tools: Django, Flask, Git, React.js, SQLite3, PostgreSQL, Laravel, Jupyter Notebooks, Bootstrap, jQuery, Keras

WORK EXPERIENCE

ApplyBoard

Kitchener, ON

Sept 2019 – present

FULL-STACK SOFTWARE ENGINEER

- Worked on an intermediary **Flask** service that utilizes **webhooks** to **parse** and **classify** incoming emails and automates tasks such as acceptances and writing 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**
- Developed a **React** dashboard to be used by the commissions team that interacts with an **SQL database**
- Spearheaded a **machine learning** project that performs **sentiment analysis** on incoming emails and flags urgent emails on **FrontApp**, a corporate email platform
- Partnered with three other co-op students in **ApplyCare** to raise over **\$1500** for a local non-profit organization in support of women's education
- Created an **image classification** model that recognizes different documents uploaded in an **OCR** project

Fairtax

Oakville, ON

Jan 2019 – Aug 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 **Markit On Demand** stock quote **API**
- Employed **SQL** and **Python** to create and interact with **SQLite3** databases used to store user information, transactions, and holdings

Hack the Valley

University of Toronto

Toronto, ON

Feb 2018

OUTWEATHER (github.com/Paulinakhew/outweather)

- Created a **Python** web application using **Flask** and **Python** that suggests outfits based on the current weather scraped from the **OpenWeatherMap API**
- Implemented **modularization** and **Git Flow** to streamline the collaborative workflow

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 structured and **object-oriented programming** techniques in **C++** in Digital Computation course

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**, 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