

# PAULINA GRACE KHEW

## SYSTEMS DESIGN ENGINEERING AT THE UNIVERSITY OF WATERLOO

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paulinakhew.me

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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

### 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
- Automated the login, autofill, and submission of applications on various school portals using a **Google Chrome extension** written in **JavaScript** and **Jquery**
- Spearheaded a **machine learning** project that performs **sentiment analysis** on incoming emails to determine the urgency
- 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

#### Fairtax

Oakville, ON

Jan 2019 – 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 *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

Sept 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, team sports, bullet journaling, sketching, reading, playing piano, solving puzzles