■ d246wu@gmail.com ・ 🏕 dannywuwu.github.io ・ 🖸 dannywuwu ・ 🛅 wuda

Education

University of Waterloo Waterloo Waterloo, Ontari

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING (CO-OP)

September 2019 - April 2024

- President's Scholarship of Distinction, Purdy Crawford Entrance Scholarship for Academic Achievement
- UW Software Engineering Society Executive VP Events, Waterloo Engineering Student Ambassador
- Relevant Courses: CS 451 (Distributed Systems) CS341 (Algorithms) CS343 (Concurrent Programming) ECE459 (Performance Computing)

Experience ___

Balyasny Asset Management

New York, NY

TECH ASSOCIATE

September 2023 - December 2023

- Created tools in **Python** for concurrent data reconciliation, ensuring consistent data across trade environments for accurate risk calculations
- · Processed data for management dashboards displaying team KPI metrics, enabling data-driven decisions for future resource allocation

Faire Waterloo, Ontario

SOFTWARE ENGINEERING - BACKEND

January 2023 - April 2023

- · Built internal tooling in Kotlin to manage brand commissions by taking action against user abuse to save over \$300k in commission losses
- · Wrote email compilers and implemented RPCs using Protobufs to optimize email generation, delivering over 400k outreach emails monthly

IBM Extreme Blue

Markham, Ontario

TECHNICAL INTERN - MICROSERVICES

May 2022 - August 2022

- Prototyped an AI tool enhancing IBM's Mono2Micro to define architecturally solid APIs, simplifying modernisation of monolithic applications
- Developed codebase analysis algorithm in Python and built pipeline to generate API definitions from static analysis of any Java application
- $\bullet \ \ \text{Rendered analysis as a} \ \textbf{Swagger-like blueprint} \ \text{in } \textbf{React}, \text{recommending } \text{transformed microservice APIs with } \textbf{high explainability} \ \text{to } \text{developers} \\$
- Pitched solution to 20 IBM executives and multiple business units, cultivating public speaking skills in presenting live to over 300 people

Smart & Biggar

Ottawa, Ontario (Remote)

SOFTWARE DEVELOPER - IT

September 2021 - December 2021

- Trained a multiclass ML classification model for 10 categories with 95% precision using the spaCy NLP library in Python on extracted emails
- Built an automation process in C# to keep SQL database consistent with DayForce HCM employee information by concurrent HTTP requests

Smart & Biggar

Ottawa Ontario (Remote

SOFTWARE DEVELOPER - FULLSTACK

- January 2021 April 2021
- Developed a widget dashboard framework from scratch in ASP.NET Core for a web portal landing page using the MVC design pattern
 Built an ASP.NET Core Web API to manage dashboard data using CRUD operations on SQL Server with Dapper ORM and stored procedures
- Implemented UiPath RPA to automate manual tasks including scraping data, converting emails to PDF, and sorting over 1k emails daily

University of Waterloo

Waterloo, Ontario (Remote)

SOFTWARE ENGINEERING - MOBILE

June 2020 - August 2020

• Created a school event platform in **React Native** to connect Waterloo students in-person through social activities pertaining to COVID guidelines

Projects

Things2Do

https://github.com/dannywuwu/Things2Do

January 2023

- Created a day trip planner in React and Express to algorithmically generate a trip itinerary based on user preferences, winner at DeltaHacks9
- Integrated Yelp location data with geocoding and OpenStreetMap routing to determine the best places to visit during the given time period
- Minted NFTs with Verbwire by generating images that utilise location pictures from the recommended itinerary, showcased in a photo gallery

Picture Police

GITHUB.COM/DANNYWUWU/PICTURE-POLICE

September 2021

- Built a bot with Discord.py which analyzes and censors explicit images and profanity using a Flask server hosted on Google App Engine
- · Integrated Google Cloud Vision OCR with image classification library and Python PIL to modify and replace unacceptable image content
- Combined above with **NLTK sentiment analysis** and custom profanity checking to produce a safety rating based on both text and image

Aang

GITHUB.COM/DANNYWUWU/AANG

January 2021

- Built a React web application styled with Chakra UI that tracks user body posture in real-time using their webcam at Hack the North 2020++
- Used **Tensorflow's Posenet ML model** to retrieve pose data from video feed, calibrating initial posture for use **with any camera/position**

Skills____

Languages Python • JavaScript • TypeScript • C# • C++ • C • Java • Scala • Kotlin • Rust • SQL • HTML/CSS

Technologies Flask • Node • Express • ASP.NET Core • React/Redux • Docker • Hibernate • JUnit • Pytest • Jest • Datadog