# NADINE PIGIDA

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20877885 | Computer Science 3B

## EXPERIENCE

### SOFTWARE ENGINEER

GALT HEALTH • MAY – AUG 2022, JAN – APRIL 2023

- Designed and developed a Python application to automate prescription refills, reducing the time taken to refill a prescription by **50%**
- Transformed the local application into a production-level system, leveraging AWS (Lambda and DocumentDB) for scalability and reliability
- Utilized AWS to create and train a custom ML model for extracting relevant data from scanned medical documents, increasing accuracy from previous method
- Designed and developed a second Python application to automate billing processes for family doctors
- Implemented algorithms and calculations to estimate potential savings for doctors based on their billing and patient care history, resulting in significant cost savings

### SOFTWARE DEVELOPER

CULTUREALLY • SEPT 2021 – DEC 2021

- Investigated and resolved **15+** bugs impacting various frontend and backend tasks
- Wrote **25+** SQL queries to report live per-account engagement metrics to admin users of the SaaS product
- Designed new UI/UX for delivering employee training modules through the web app, allowing CultureAlly to explore a new revenue stream

### AI DATA LABELER

CHISEL AI • FEB 2020 – AUG 2021

- Labeled specific terminology and data present on **20,000+** insurance documents using AWS Sagemaker to train AI-based solution
- Exhibited great attention-to-detail when labeling documents, resulting in a **20%** improvement in accuracy and efficiency

## SKILLS

- **Languages:** Python, SQL, C/C++, HTML, CSS, JavaScript, Bash
- **Technologies:** AWS (Lambda, Sagemaker, Comprehend, S3, DocumentDB), Git/GitHub, Vim, Google Firebase, Microsoft Office, Figma, Metabase, Linux

## PROJECTS

### KINDKART

- Chrome extension built using **HTML**, **CSS**, **JavaScript**, and **Google Firebase** to help users make sustainable purchases online
- **1st** place in Industry category, SEThacks hackathon

### CAPUCHIN BIRD CALL RECOGNIZER

- Developing a bird call recognition system using **Python**, **TensorFlow**, and a convolutional neural network (CNN) to accurately detect and count the number of Capuchin bird calls in an audio clip
- Trained the CNN on a dataset of labeled bird calls, achieving an accuracy of 98% on a held-out test set
- Planning to try other methods such as using MFCCs and Support Vector Machines and compare the accuracy of different models

## EDUCATION

Candidate for Bachelor of Computer Science 87% GPA

**UNIVERSITY OF WATERLOO • EXPECTED APRIL 2025**

## INTERESTS

- Co-founder of the UWaterloo Skateboarding Club
- Bouldering
- Bass/guitar, classical piano, painting
- Previous member of the Royal Canadian Air Cadets