Bao Duy Huynh

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EDUCATION

Worcester Polytechnic Institute (WPI) | Worcester, MA

BS in Computer Science	GPA: **3.87 (Dean's List, With High Distinction)**	**May 2023**
MS in Computer Science	GPA**: 3.76**	**May 2023**

SKILLS

Languages: Java, Python, SQL (PostgreSQL, MySQL), C++, JavaScript, React, HTML, CSS
Software: VS Code, Git, AWS, Oracle, Docker, Firebase, spaCy, Doccano, Google Suite

EXPERIENCE

Homewatch Caregivers | Bridgewater, MA | **ITS Technician** **January 2022 – Present**
- Install and configure computer software and systems.
- Adapt and optimize local networks to new software.
- Systematize appropriate data from employees and customers.

Western New England Medical Transport | Remote | **ITS Technician** **March 2022 – Present**
- Authorize transportation application for over 10 drivers.
- Reorganize local database of transporting data for HR.

Wildlife Trafficking REU | WPI | **Research Assistant** **May – August 2022**
- Conducted in-depth research on various social platforms to detect, monitor, and analyze wildlife trafficking/trading activities for the National Science Foundation.
- Operated with convicted trafficker to track and report trafficking intelligence within private messaging applications.
- Scraped over 200 Instagram posts with specified wildlife keywords utilizing InstaLoader API.
- Organized and enhanced a robust database of wildlife crimes.

Change for Change | Remote | **Software Engineering Intern** **May – August 2021**
- Developed a Chrome extension incorporating Figma interface designs intended as donation portfolios.
- Integrated synchronous Firebase database storing users' information and donating activities.
- Implemented Google Authentication handled by Firebase Auth and social media sharing.

PROJECTS

Wildlife Crime Media Aggregator | WPI **| Major Qualifying Project** **August 2022 – April 2023**
- Operate as a three-person team developing Name Entity Recognition (NER) models to identify wildlife trafficking information from news media with **94% F1-scoring**.
- Documented 300 online Indian news articles and annotated 14 entity types identified with domain experts.
- Trained and evaluated six unique NER models with combinations of distinct architectures (Single vs Composite) and tokenization methods (Tok2vec vs Transformer) as well as default models.
Designed a static website hosting interactive Tableau visualizations for extracted data.

Yelp Restaurant Review | WPI **August – December 2022**
- Performed sentiment analysis on Yelp users' reviews with a three-person team.
- Analyzed popularity and threshold of sentiment scores through multi-label and multi-class classifications with Fine-Tune BERT language model and LSTM Neural Network model.

AWS Store Management System | WPI | **Backend Developer** **August – December 2022**
- Operated as a four-person team developing full-stack application with REST API.
- Implemented lambda functions corresponding to customers' interactions and stores' features.
- Organized and hosted relevant data of customers' locations, products, and store structure with RDS.

Capacity | Zurich, Switzerland | **Interactive Qualifying Project** **August – October 2021**
- Researched and interviewed over twenty stakeholders and organizations regarding entrepreneurship programs and experience with respect to opportunities and limitations.
- Developed a scaling plan for Capacity entrepreneurship programs.

Brigham & Women's Hospital Application | WPI **| Backend Technical Leader** **January – March 2021**
- Competed in an eleven-person team developing full-stack applications in an industrial environment utilizing Agile development methodologies with JavaFX and SQL.
- Trained team members on SQL and designed databases following the singleton façade design.
- Integrated database for features of indoor/outdoor pathfinding, COVID-screening survey, service request, and parking.

COURSES

- Information System
- Natural Language Processing
- User Experience Design
- Database Systems
- Big Data Management and Analytics
- Object-Oriented Analysis and Design