

Bao Duy Huynh

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor of Science in Computer Science, GPA: 3.87/4.00, Dean's List

May 2023

Master of Science in Computer Science, GPA: 3.76/4.00

May 2023

SKILLS

Programming: Python, Java, SQL [Intermediate], C, C++, JavaScript, HTML, React, CSS

Software: Jupyter, VS Code, Git, Oracle, MySQL, Firebase, Docker, AWS, spaCy, Doccano

Language: Vietnamese [Native], English

RELEVANT COURSES

Object-Oriented Analysis and Design, Software Engineering, Computer Network, Operating Systems, Database Systems, Design of Software Systems, Artificial Intelligence, Machine Learning, Natural Language Processing, Information Retrieval, User Experience Design

EXPERIENCE

IT Manager, Homewatch Caregivers, Bridgewater MA

Jan 2022 – Present

- Installed and configured appropriate software and functions according to specifications.
- Developed and maintained local networks that optimize performance.
- Maintained and updated relevant data from employees and customers.

IT Manager, Western New England Medical Transport, Remote

Mar 2022 – Present

- Managed applications for drivers and transportations.
- Organized and reported transporting data for HR.

Wildlife Trafficking REU, National Science Foundation, WPI

May – Aug 2022

- Conducted in-depth research on various social platforms to detect, monitor, and analyze wildlife trafficking/trading activities.
- Operated with convicted trafficker to track and report trafficking intelligence within private messaging applications.
- Utilized Instaloader API to collect datasets of Instagram posts with wildlife keywords.
- Managed and enhanced a robust database of wildlife crimes.

Software Engineering Intern, Change for Change, Remote

May – Aug 2021

- Developed a Chrome extension incorporating Figma interface designs.
- Integrated synchronous Firebase database to store users' information and activities.
- Implemented Google Authentication handled by Firebase Auth and social media sharing.

PROJECTS

Wildlife Crime Media Aggregator, Major Qualifying Project, WPI **Aug 2022 – Apr 2023**

- Operated as a three-person team developing Name Entity Recognition (NER) models to identify and document wildlife trafficking information from news media.
- Collected and annotated relevant entities from Indian online news articles.
- Trained and evaluated six unique NER models with combinations of distinct architectures (Single vs Composite) and methods (Tok2vec vs Transformer) as well as default models.
- Designed static website incorporating interactive Tableau visualizations for extracted data.

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Subreddit Classification, WPI

Jan - May 2023

- Collected and vectorized text data from subreddit of various categories using Async PRAW.
- Implemented unique classification models and visualized classified categories with t-SNE.

Yelp Restaurant Review, WPI

Aug – Dec 2022

- Developed NLP models on sentiments of users' reviews with a three-person team.
- Analyzed popularity and threshold of sentiments through multi-label and multi-class classifications with Fine-Tune BERT and LSTM Neural Network models.
- Prototyped and optimized prediction model for sentiment score with Keras Sequential.

AWS Store Management System, WPI

Aug – Dec 2022

- Operated as a four-person team developing full-stack store applications with REST API.
- Implemented lambda functions corresponding to users' interactions and stores' features.
- Stored relevant data of users' locations, products, and store structure through RDS.
- Communicated with front-end developers to update and test functionalities.

Herbarium Classification, WPI

Mar – May 2022

- Developed plant classification model using Herbarium specimen images dataset.
- Optimized performance with Softmax Regression and TensorFlow Keras Neural Network.
- Applied principle component analysis on data to fasten training and improve accuracy.

Big Data Management and Analytics, WPI

Jan – Mar 2022

- Generated and stored data in HDFS database hosted by Docker.
- Implemented and optimized variations of K-Means algorithms with Hadoop MapReduce.
- Developed COVID-19 application detecting infection by location proximity in Spark-RDDs.

Interactive Qualifying Project, Capacity Zurich, Switzerland

Aug – Oct 2021

- Researched and interviewed over twenty stakeholders and organizations on entrepreneurship programs, limitations, and opportunities.
- Developed a scaling plan for Capacity entrepreneurship programs.

Brigham & Women's Hospital Application, WPI

Jan – Mar 2021

- Competed in an eleven-person team developing full-stack applications in an industrial environment utilizing Agile development methodologies with JavaFX and SQL.
- Developed an indoor pathfinding application, map builder, COVID-screening survey, integrated service request modules, and parking features.
- Served as a technical leader of the database team: trained team members on SQL, designed the database following the singleton facade design pattern and connected FXML controllers.

Foundations of Data Science, WPI

Mar – May 2020

- Analyzed Twitter trends measured by retweets and popular hashtags in Python.
- Prototyped salary prediction model of MLB players using sklearn.

Bose Frame Preview, WPI

Jan 2020

- Collaborated to program an AR experience of Bose Frames in Python with OpenCV.
- Designed interactive website incorporating the AR features in real-time.