# Bao Duy Huynh

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## EDUCATION

**Worcester Polytechnic Institute (WPI),** Worcester, MA

Bachelor of Science in Computer Science, GPA: 3.84/4.0, Dean's List **May 2023**

Master of Science in Computer Science **May 2023**

## SKILLS

**Programming:** Python, Java, SQL [Intermediate], C, C++, JavaScript, HTML, React
**Software:** Google Suite, Jupyter, IntelliJ IDE, VS Code, Git, Oracle, MySQL, Firebase, Docker, AWS
**Language:** Vietnamese [Native]

## EXPERIENCE

**Online Wildlife Trade - Research Assistant,** WPI **May – Aug 2022**

- Operated with a convicted trafficker to research and retrieve online activities of wildlife trading, especially turtles, across social media and market websites.
- Utilized Instaloader to collect datasets of Instagram posts with wildlife keywords.

**Capacity Zurich,** Interactive Qualifying Project, Switzerland **Aug – Oct 2021**

- Researched and interviewed over 20 stakeholders and organizations on entrepreneurship programs, limitations, and opportunities.
- Developed a scaling plan for Capacity entrepreneurship programs.

**Change for Change - Software Engineering Intern,** Virtual **May – Aug 2021**

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

## PROJECTS

**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.

**Store Management System,** WPI **Aug – Dec 2022**

- Operated as a four-person team developing full-stack store applications in AWS.
- Implemented lambda functions corresponding to users' interactions and hosted data through RDS.
- Communicated with front-end developers to update and test functionalities.

**Herbarium Classification,** WPI **Mar – May 2022**

- Developed plant classification algorithm using Kaggle's 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 that detects infection from location proximity in Spark-RDDs.

**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 Apache Derby 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.