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 Database, Firebase, Docker, Hadoop
Language: Vietnamese [Native]

EXPERIENCE

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

- Operated with a convicted trafficker to research and retrieve online activities of wildlife trading, especially turtles, across social media and personal websites.
- Utilized Instaloader to collect large datasets of Instagram posts with specific 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 that incorporates Figma interface designs and real-time Firebase database to store users' activities.
- Implemented Google Authentication handled by Firebase Auth and social media sharing.

PROJECTS

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.
- Coordinated the team as an assistant software engineer: helped organize project tasks, brainstormed features with use cases, user stories and storyboards.
- 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 ranked popular hashtags and users in Python.
- Prototyped salary prediction model of MLB players using sklearn.
- Optimized performance by using a combination of regression models and attributes.

Bose Frame Preview, WPI **Jan 2020**

- Collaborated to program an AR experience of Bose Frames in Python with OpenCV.
- Designed a website that allows users to access the application in real-time.