Vin 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, SparkSQL), C++, JavaScript, React, HTML, CSS
Software: VS Code, Git, AWS, Oracle, Docker, Firebase, spaCy, Doccano, Jupyter Notebook, Google Suite

EXPERIENCE

Wildlife Trafficking REU | WPI | **Research Assistant**   **May – August 2022**
- Performed comprehensive research across multiple social platforms to detect and analyze wildlife trafficking activities.
- Operated with a convicted trafficker to report intelligence on wildlife trafficking within private messaging apps.
- Utilized the InstaLoader API to scrape over 500 Instagram posts containing specific wildlife-related keywords.
- Cleaned duplicated wildlife posts from estimated 700 to 400 entries for database.

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**
- Achieved Name Entity Recognition (NER) model to identify wildlife trafficking information with **94% F1-scoring**.
- Documented 300 online Indian news articles and annotated 14 entity types identified with domain experts.
- Trained and evaluated 4 unique NER models with combinations of different architectures and tokenization methods.
- Prototyped spaCy models with previous project's entity rulers for baseline performance of **20% F1-scoring**.
- Designed and deployed static website hosting interactive Tableau visualizations for extracted data.

Subreddit Classification | WPI   **January – April 2023**
- Collected 5100 post titles using Async PRAW, then vectorized input using sklearn CountVectorizer.
- Achieved **77% F1-scoring** with Linear SVC among 7 models, then visualized classified categories using t-SNE.

Yelp Restaurant Review | WPI   **August – December 2022**
- Predicted popular sentiment of users' reviews using multi-class classification via Fine-Tune BERT language model.
- Initialized multi-label classification for reviews' sentiments threshold via Fine-Tune BERT.
- Improved classification **accuracy** from BERT's **25%** to LSTM Neural Network's **94%**.
- Implemented regression model using TensorFlow's Keras Sequential model to quantify users' sentiments.

AWS Store Management System | WPI | Backend Developer   **August – December 2022**
- Orchestrated microservices under Amazon API Gateway for REST API endpoints using AWS lambda functions.
- Deployed serverless application with AWS S3 hosting static HTML, CSS, and JavaScript files.
- Designed ERD for product entities within customers and stores' domains.
- Utilized AWS RDS for hosting MySQL database to organize and maintain entity data according to ERD guidelines.
- Implemented clean architecture codebase for features' flexibility and maintainability.

Brigham & Women's Hospital Application | WPI | Backend Technical Leader   **January – March 2021**
- Facilitated efficient remote collaboration within an eleven-member team, leveraging Agile Scrum and Trello.
- Bridged communication gap with frontend team via ERD and seamless integration of FXML controllers to database.
- Upheld uniformity and consistency in database designs by implementing singleton and façade OOP design patterns.
- Utilized Oracle SQL with anti-NoSQL injection layer, enforced type-safe and performant database access with JDBC.
- Implemented critical features such as pathfinding, COVID-screening surveys, service requests, and parking.

LEADERSHIP

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

Homewatch Caregivers | Bridgewater, MA | **ITS Technician**   **January 2022 – Present**
- Systematize financial data of homecare services for over 100 employees and elders.

Capacity | Zurich, Switzerland | **Interactive Qualifying Project**   **August – October 2021**
- Formulated a scale-up strategy for entrepreneurship programs based on stakeholder input and industry research.

COURSES

- Information System
- Natural Language Processing
- User Experience Design

- Database Systems
- Big Data Management and Analytics
- Object-Oriented Analysis and Design