Zhihong(Cody) Jiang

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EDUCATION BACKGROUND

New York University, Tandon School of Engineering   **New York, NY**
Bachelor of Science; **Major:** Computer Science   Expected May 2024
Pennsylvania State University   **State College, PA**
Bachelor of Engineering   Sept 2020-May 2021

PROFESSIONAL EXPERIENCE

Anhui Yuntai Transportation Develpment Limited   **Wuhu, China**
Data Analyst Intern   Jun 2023-Aug 2023
- Utilized C++ to create a database for vehicle operations, including vehicle routes, revenue, operating duration, and passenger flow data
- Enabled detailed income analysis and strategic recommendations for business development direction, such as prioritizing car rental services over bus operations based on revenue analysis
- Analyzed the vehicle operation data to optimize the route, decreasing expenditure by 15% and increasing efficiency

Software Engineering Intern   Jun 2022-Aug 2022
- Developed a mobile vehicle operation application for tracking and managing large bus dispatches and car rentals
- Designed for internal and external use, with external functionalities integrated into a corporate ERP management system
- Facilitated a complete safety loop for vehicle monitoring, monitoring response, and routine management safety

PROJECT EXPERIENCE

Online Airline Ticket Booking System - *Database and Web Development Class Project*   **New York, NY**
- Developed a comprehensive relational database and web application for an Online Airline Ticket Booking System
- Utilized SQL for database design, Python with the Flask framework for backend development, HTML for interface
- Established a functional database system to store and manage data related to airports, flights, tickets, and user profiles

AI-Powered Interview Simulation Tool   **Remote**
Part-time Assistant, Mentored by Head of Data Science from Meta   Oct 2023-Present
- Led the development of an interview simulation tool using NLP and audio processing technologies; Utilized Python and libraries such as Transformers, Torchaudio, SpaCy, and PyTorch to build and optimize the tool's functionality
- Developed the tool through various stages, from MVP with basic asynchronous scoring to General Availability (GA) with real-time scoring and gamification
- Integrated video performance analysis for assessing non-verbal communication as part of the scoring system; Enhanced audio analysis capabilities for evaluating structural clarity and the use of industry-specific terminology in responses

Massachusetts Institute of Technology Deep Learning Research   **Remote**
Student Researcher   Jun 2021-Aug 2021
- Engineered a cancer diagnosis application featuring a user-friendly interface; Integrated a Convolutional Neural Network (CNN) backend for accurate classification of cancer types; Implemented a Natural Language Processing (NLP) module to facilitate effective communication within the application
- Developed and trained a CNN-based model, achieving a high accuracy rate of 89% in cancer diagnosis
- Contributed to research papers on the application's development and selected for publication in the SPIE Digital Library

EXTRACURICULAR ACTIVITIES

NYU Leetcode & Data Science Bootcamp   **New York, NY**
Participant   Jan 2022-May 2022
- Participated in a Kaggle Competition to predict creadit card default rate based on historical transcation data and successfully ranked in the top 15% of participants
- Utilized advanced machine learning techniques, including Random Forest and Gradient Boosting, to analyze and predict default probabilities, leveraging Python and libraries such as Pandas, Numpy, and Scikit-Learn

ADDITIONAL INFORMATION

Languages: Chinese (Native Proficiency) / English (Advanced Proficiency)
Programming: C, C++, Python, Java, SQL, Verilog, JavaScript, HTML, CSS
IDE: Visual Studio, Visual Studio Code, PyCharm, Sublime Text, IDLE