BO XIA (XAVIER)

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EDUCATION	
 Junior, Carnegie Mellon University Bachelor of Science in Information Systems and Double Major in Statistics and Machine Learning GPA: 3.82/4.0 (Fall 2020, Spring 2021 - Dean's List with High Honors, Dietrich College) Quantitative Social Science Scholars (QSSS) for Carnegie Mellon University Relevant Coursework Fundamentals of Programming and Computer Science Principles of Imperative Computation Statistical Methods Introduction to Probability Theory Enterprise Web Development Database Design and 	Expected Graduation: Dec 2023
Management Introduction to Statistical Research Methodology	
RELEVANT SKILLS	
 Programming Language: Python, R, C, SQL/NoSQL, MongoDB, HTML/CSS, PHP Modules / Packages: Tensorflow, PyTorch, Numpy, Pandas, Matplotlib, Git, Tmux/Unix Others: English (Fluent), Chinese (Fluent), Negotiation, Leadership, Communication, Database Design 	
RESEARCH EXPERIENCE	
 Classification of White Drafts of Spectral Type A, <i>Team Member</i>, Carnegie Mellon University Produced intermediate statistical project for USCLAP Competition by training a classification model Performed EDA and Variable Selection on dataset with more than 9000 rows on White dwarfs dataset Applied statistical learning and ML models like Random Forest and XGBoost, ranked with AUC values before maximizing Youden's J statistic for accuracy of classification model 	Aug 2021 – Dec 2021
 CMU Argo AI Lab, Research Intern, Carnegie Mellon University Utilized PyTorch along with vision-language curation to curate vision benchmark dataset for CVPR 2022 Worked with various PhD and MS students and updated design documents and research methodology CMU Libraries, Summer Undergraduate Research Apprentice (SURA), Carnegie Mellon University 	June 2021 – Present
 Analyzed dataset of 9000 rows using EDA, co-variate analysis and different machine learning models Produced and presented a comprehensive research thesis to clients, including non-technical audience Developed an adaptable and replicable code sample in R for client to further our research 	May 2021 – Aug 2021
PROJECTS	
 Instagram Database Design, Team Member, Carnegie Mellon University Studied Instagram's business model with 10 user stories and developed relational and physical models Transformed user stories into SQL queries and normalized the physical models for database creation 	Aug 2021 – Dec 2021
 Personalized Telegram Bot, Creator Created a Bot on Telegram, a messaging application, using Python and Telegram API Integrated Google Sheets with the bot using Webhook and Google Scripts for personal expenses tracking 	June 2021 – Present
 Fundamentals of Programming and Computer Science, Creator, Carnegie Mellon University Created a Soccer Game using Python and Object-Orientated Programming incorpated with tkinter GUI Imported dataset of real players and conducted basic data wrangling using Numpy and Pandas Implemented increasing difficulty of AI for progressive gameplay 	Aug 2020 – Nov 2020
 Project Willpower, Hackathon Participant, SCDF x IBM Hackathon Won 5th Place in SCDF x IBM Hackathon with idea of portable household hazard detection Deployed web scrapper to scrape images to create dataset of 2000 household objects for training/test split Developed a Webapp using TensorFlow Object Detection API for household hazard prevention 	Apr 2020 – July 2020
LEADERSHIP EXPERIENCE	
 Blockchain Club, External Activities Chair, Carnegie Mellon University Secured funding from CMU Alumni to bring 15 Club Members to ETHDenver 2022 Planned and executed recruitment talks with external speakers from firms like Paradigm and Celo 	Aug 2021 – Present
 Quick Response Task Force, Leader, Singapore Armed Forces Spearheaded a task force of 10 individuals for Annual National Day Parade of Singapore Tackled logistical, safety and spectator-specific problems over 8 weeks of rehearsal 	June 2019 – Aug 2019