BRIAN CHUNG

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| RESEARCH AND WORK EXPERIENCE

AI4Business Lab, San Diego State University - *Lab Coordinator/Graduate Research Assistant*

San Diego, CA • 03/2023 - 06/2024

- Deployed a computer vision pavement distress classification model on a Linux server using PyTorch, training with over 60,000 images; optimized to enhance overall performance by 10% and reduced model size by 50%.
- Led 3-5 member teams to complete cross-departmental, international projects under tight deadlines.
- Reviewed over 500 academic papers to draft two research articles, "Large Language Models for Code Tasks" and "Pavement Distress Image Analysis," aimed at supporting and implementing deep learning methods.
- Fine-tuned a large language model (LLM) to assist in code search tasks.
- Coordinated laboratory interview schedules and participated in up to 20 weekly interviews to expand research staff.

Department of MIS, San Diego State University - *Teaching Assistant*

San Diego, CA • 08/2023 - 05/2024

- Developed a mail search system tool to enhance response times and quality, enabling new teaching assistants to quickly access and reference similar email content for efficient replies.
- Created an automated Python function and data pipeline that streamlined grade calculations, saving teaching assistants 80% of their time based on established regulations.
- Supported professors in delivering course content on data analytics, machine learning, and web development, facilitating enhanced student learning.

Jeff Byrd Financial, Inc. - *Office Assistant (Temp)*

Pasadena, CA • 02/2022 - 06/2022

- Enhanced and standardized the client database, reducing customer management time by 30%.
- Migrated client data from an offline database to ACT online customer management system, optimizing data accessibility.

Tamkang University - *Research Assistant*

New Taipei City, Taiwan • 03/2020 - 01/2021

- Collaborated with Ministry of Education on University Social Responsibility Program, skillfully integrating Tamsui's rich agricultural legacy and historical sites with Google Maps API to boost regional tourism and cultural appreciation.
- Assisted in Ministry of Science and Technology project by developing a tool to analyze privacy tracking protection and social network dynamics, improving movie recommendation systems and advancing data privacy research.

| SKILLS

- Python (Pandas, Numpy)
- Database (MySQL, MariaDB, MongoDB)
- Artificial Intelligence (Scikit-Learn, Computer Vision, PyTorch, CNN, Transformer, LLM, Machine Learning)
- Web Application (Django, HTML, Javascript, CSS)
- Data Visualization (Power BI, Tableau, Plotly)
- Statistics (R, SPSS)
- Docker, Git, Bash, Data Structure
- AWS Relational Database System

| EDUCATION

San Diego State University

San Diego, CA • 05/2024

Master of Science in <u>Big Data Analytics</u> (gpa 3.88/4)

Curriculum: Machine Learning/Database Management/Time Series Analysis/Data Science

Tamkang University

New Taipei City, Taiwan • 06/2021

Bachelors in Management Sciences (gpa 3.75/4)

Curriculum: Mathematical Statistics/Regression Analysis/Sampling Methods/Text Mining/Business Analytics/Operations Research

| AWARDS AND CERTIFICATIONS

- CS50's Web Programming, Havardx, 05/2023, Utilized Django to build a real-time chat website with file sharing feature.
- Tamkang University School of Management Sciences Academic Award, Spring 2020/ Spring 2019/ Fall 2018, Ranked in the top 2% of students in the Management Science Department.
- Certified Microsoft Office Specialist (MOS) Excel 2016, 06/2019