+1(224)600-6852 | hohu@ucsd.edu | **WWW:** https://hongchaohu.github.io/

HONGCHAO HU

WORK HISTORY

DATA ANALYST INTERNSHIP 06/2023 to 08/2023
Mobalytics

- Used Python and MySQL on data cleaning and data validation to promote a robust performance analysis platform
- Implemented k-means clustering, enhancing analysis accuracy by 12%, resulting in 16% active user increase
- Conducted player database analysis and industry market research to propose strategic shift towards new immersive Augmented Reality experiences

NETWORK SYSTEM ADMINISTRATOR ASSISTANT INTERNSHIP 06/2020 to 08/2020
CTC (China Telecommunications Corporation)

- Increased customer demand on cloud data center by boosting data processing efficiency by 35% through designing and incorporating the use of neuro network (implemented with PyTorch)
- Implemented cybersecurity protocols, ensuring the integrity of user data and reducing potential threats by 20%

PROFESSIONAL SKILLS

Database & Statistical Analysis: Python (Panda, SageMath, Seaborn), MySQL, R
Programming/Scripting Languages: Java, C++/C

EDUCATION

The University of California San Diego
Bachelor of Science, Mathematics And Computer Science, Expected in 06/2024
- GPA: 3.158
- Minor in Business Economics
- Relevant Coursework: Design & Analysis of Algorithm, Data Analysis and Inference, Math of Modern Cryptography

Worcester Polytechnic Institute, Worcester, MA
Master of Science, Data Science, Expected in 06/2026

PROJECTS

Pinyin Hand-writing Recognition Model [Python, MySQL]
- Used **PyTorch** and **MySQL** to train, validate a neural network model while Integrate neural network into a local database system.
- Implemented advanced hyperparameter tuning techniques to optimize model performance, resulting in a 15% improvement in prediction accuracy over baseline models.

Secure Sight Data Stream [CryptoJS, Python]
- Utilized **CryptoJS** library to create a data encryption model and a data transmission system, improving data privacy and integrity for text-based communication.

ADDITIONAL INFORMATION

- Languages: English (Fluent), Chinese (Native)
- Clubs: Surfing, Diving, Snowboarding, Violin