Hui Zhang (She/Her)

hui0041600@gmail.com | 551-998-4408 | hu1zhang.com

PROFILE

Skilled software developer with a focus on delivering practical solutions and a strong foundation in computer organization, Java programming, and database management. Proven leadership and communication abilities, refined through teaching French in an educational background. Recognized for quick learner, concise communication and a collaborative approach, effectively working across all levels of an organization. Adept at problem-solving and team collaboration in fast-paced environments.

EDUCATION

Pace University — New York, NY May 2025
Computer Science and Information Systems
MS in Computer Science Candidate | GPA: 3.97

Henan University — KaiFeng, Henan June 2022
Bachelor of Arts in French | GPA: 3.05

ACADEMIC PROJECTS

Parallel Computing with GPU and CUDA

- Collaborated with the Professor on CUDA-based parallel programming projects.
- Developed and optimized GPU-accelerated Mandelbrot Set generation and neural network models using GPUs.
- Conducted experiments alongside with team and professor, utilizing advanced CUDA libraries like cuDNN and NCCL.

NYC Taxi Trip Data Analysis and Predictive Modeling (2020 Data)

- Proven ability to manage and analyze large datasets (2M+ records) efficiently using Pandas, PyArrow, and FastParquet.
- Skilled in data cleaning and handling outliers, ensuring high data quality with statistical techniques (IQR filtering).
- Strong feature engineering skills, transforming raw data (e.g., trip duration from timestamps) for predictive insights.
- Expert in identifying correlations and optimizing features, reducing redundancy and improving model performance.
- Experience with scalable workflows using Apache Beam, TFDV for efficient cloud-based data processing.
- Fast learner and problem-solver, adapting modern tools and techniques to deliver actionable insights and ready-to-use datasets.

Deep Learning-Based Image Classifier

- Independently developed a web-based system using C# and ASP.NET Core MVC, managing user accounts, courier packages, and attendance.
- Designed and implemented key modules, integrated MySQL for data storage, and built responsive UI with HTML/CSS.
- Applied Entity Framework Core for efficient database handling and migrations, showcasing strong backend and full-stack development skills.

WORK EXPERIENCE

Nanjing Yuduoyou Information Technology Co Ltd — Jiangsu, Nanjing
Editing Assistant (Hybird) — May 2022 – Aug 2024

- Quickly adapted to new software tools such as Premiere Pro and Audition, demonstrating versatility and willingness to learn, which significantly improved the quality and efficiency of educational content creation.
- Created engaging multimedia courseware and presentation slides, incorporating transitions, audio, and video, which streamlined the content creation process and enhanced user experience for online learners.
- Collaborated across teams to ensure content met educational standards, showcasing strong communication and adaptability, qualities essential for efficient teamwork in a fast-paced environment.

Tech Skills

- Programming Languages: Java, SQL, Python, Rust, C/C++, C#
- Web Development: JavaFX, Web Service Development, AWS, .NET.
- Database Management: SQL Server, MySQL, Database Schema Design, Triggers, XML for Data Specification
- Data Analysis: Pandas, PyArrow, FastParquet, Data Cleaning, Feature Engineering
- Technical tools: Linux Virtual Machines, Web and Database Servers Setup, Google Colab, Sharks, etc.