

# Mutian He

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## EDUCATION

### Santa Clara University, Leavey School of Business

Master of Science in Information Systems, GPA 3.59

Santa Clara, CA

Dec 2026

- Data Analytics with Python, Cloud Computing, Database Management Systems, Machine Learning, Deep Learning

### University of Glasgow, School of Computing Science

Bachelor of Science in Computer Science (BSc CS), GPA 3.66

Glasgow, UK

Jun 2024

- Data Structures & Algorithms, Database Systems, Software Engineering, Human-Computer Interaction

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, SQL (MySQL)

**Analytics:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Data Cleaning, Exploratory Data Analysis (EDA)

**Tools:** Git, GitHub, Linux, VS Code, IntelliJ IDEA, PyCharm, Jupyter Notebook, Maven

## PROJECTS EXPERIENCE

### Top Spotify Podcast Episodes – Data Analysis with Python

- Analyzed a dataset of **228K+ Spotify podcast episodes** using Python (Pandas, NumPy, Seaborn).
- Examined audio vs. video podcast distribution across 22 countries and summarized key trends.
- Built a **Random Forest model** to predict Top 10 podcasts and evaluated metrics such as accuracy and AUC.
- Performed EDA and feature engineering to identify factors linked to podcast popularity.
- Delivered documentation aligning with CI/CD best practices and scalable platform requirements.

### Airbnb Price & Host Trust Prediction – Machine Learning

- Built ML models to predict listing prices and host trust scores using numerical features and TF-IDF text features.
- Trained regression/classification models (Random Forest, XGBoost) and evaluated results with MAE, RMSE, accuracy, and AUC.
- Identified key factors affecting listing popularity and host reliability.

### Jenkins-as-a-Service (JaaS) OSS Platform – DevOps

- Designed the **high-level architecture** for an internal Jenkins-as-a-Service CI/CD platform.
- Created system workflows, user stories, and pipeline diagrams for build and deployment processes.
- Proposed an **RBAC security model** defining admin, maintainer, and developer access levels.
- Collaborated in an Agile environment to document platform components and present technical deliverables.

### Gaelic Language Connection Platform – Full-Stack Web Development

- Developed a full-stack web platform using **Django**, integrating database models to track user activity and event participation.
- Built responsive UIs with **Bootstrap** and SweetAlerts, enabling users to browse events and RSVP through an interactive interface.
- Integrated **Google Maps API** to display Gaelic-language activity locations and compute distances between user and event sites.
- Designed backend logic for event filtering, user actions, and location-based recommendations.

## ADDITIONAL INFORMATION

**Interests:** Coding projects, fitness, traveling, cooking

**Community Service / Activities:** Member, University of Glasgow AI Club

**Leadership Experience:**

- Vice President, University of Glasgow AI Club
- Team Leader, Gaelic Language Connection Platform project

**Recognition:** Strong academic performance in Computer Science coursework