

Mutian He

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EDUCATION

Santa Clara University, Leavey School of Business

Santa Clara, CA

Master of Science in Information Systems, GPA 3.59

Dec 2026

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

University of Glasgow, School of Computing Science

Glasgow, UK

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

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