JAVIER HENGDA WU LIN

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EDUCATION

University of Barcelona   Barcelona, ES
B.Sc. Computer Engineering, GPA 7/10   *Sep 2022 – Jun 2026 (expected)*
- Key courses: Data Structures & Algorithms, Advanced Algorithms, Operating Systems, AI, Computer Vision, Software Design, Distributed Systems, Databases.

PROJECTS & RESEARCH

Iris Classifier Microservice *(Python · FastAPI · PyTorch · Docker)*   *2025*
- Built a FastAPI microservice that served a PyTorch model for real-time iris classification, with input validation via Pydantic and auto-generated API docs.
- Reduced container size to ≈1.1 GB using a multi-stage Docker build and a CPU-only PyTorch wheel for efficient deployment.
- Automated training, testing, and smoke-testing pipelines via GitHub Actions, ensuring stability with every code change.
- Delivered >95% model accuracy with full test coverage and uptime monitoring via health-check endpoints.

Sticker-Sales Forecasting *(Python · XGBoost · Optuna)*   *2024–2025*
- Engineered a forecasting pipeline (230k rows across 6 countries and 7 years) using lag features, rolling averages, and GDP-based seasonality decomposition.
- Tuned an XGBoost model with Optuna (50 trials + TimeSeriesSplit CV), reaching a **MAPE of 4.8%.**
- Packaged preprocessing and training steps into a reproducible scikit-learn `Pipeline`; deployed with `main.py` and pickled model.

CookBookApp *(Java · Android · Firebase · Git)*   *Jan – Jun 2024*
- Built a recipe manager app with offline caching, user-auth, and search; used MVVM and Clean Architecture for maintainability.
- Integrated Firebase Auth and Firestore to support user-specific data and secure cross-device sync.
- Led a 4-member Agile team, planning sprints and delivering 95% of scoped features over 6 iterations.

imUB – Movie & Series Manager *(Java 17 · JavaFX · SQLite · MVC)*   *2023–2024*
- Developed a 30-class desktop application to manage large media libraries, track watched items, and display live Top-10 rankings.
- Used 4 GoF patterns to modularize logic and enable real-time UI updates; contributed over 75% of ≈8k LOC.
- Reduced query latency to <150ms by optimizing the DAO layer with batched access and indexed queries.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, C/C++, SQL

Web & APIs: Vue, Node.js/Express, FastAPI, REST / GraphQL, gRPC

Cloud & DevOps: GCP, Docker, Kubernetes, Terraform, GitHub Actions, CI/CD

Databases & Caching: PostgreSQL, MongoDB, Redis

Testing: PyTest, JUnit, Selenium

Big Data & Analytics: Pandas, NumPy, Apache Spark

Practices & Architecture: Microservices, OOP, Design Patterns, TDD, Clean Architecture, Agile/Scrum

CERTIFICATIONS

Mathematics for Machine Learning – Imperial College London   *May 2024*
IBM Data Analyst Professional Certificate   *Apr 2024*