IVÁN YING XUAN

As a versatile full stack developer with a background in chemical engineering, I bridge the gap between backend and frontend to deliver dynamic and user-centric web solutions by implementing robust features and optimizing optimizing website performance



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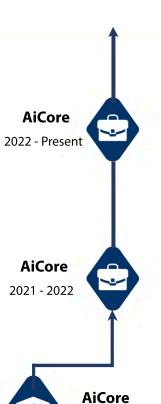
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Full Stack Developer

- Managed backend systems on AWS API Gateway and Lambda functions to build efficient endpoints for database communication
- Built and maintained features for the website using React
- Designed database schemas using PostgreSQL
- Enhanced the website functionalities by integrating different tools such as Intercom, Hubspot or Discord through their APIs
- Implemented comprehensive testing strategies using Jest and ViTest, ensuring the reliability and stability of the website

Head of Support Engineering team

- Managed and coordinated a team to teach and assist 1000+ students on ML and DS, programming, and Cloud and DevOps
- Developed multiple applications that communicate with different APIs, to help students to keep track of their progress resulting on a 100% of users finishing the course on time
- Ran weekly demos for broader audiences on how to use different tools for ML, DL, webscraping, and cloud computing

Data Science and Machine Learning

• Learned practical applications of AI such as data pipelines, ML algorithms, DL networks, and containerization

Academic Researcher

- Produced articles on electrical power management in collaboration with industry experts from ABB
- Investigated advanced power management techniques applied in the Oil & Gas industry

PhD in Process and Chemical Eng

- Fully sponsored by ABB
- Multidisciplinary study to analyze the behaviour of electricity-intensive processes to save millions of dollars
- Applied clustering and classification algorithms to detect and prevent failures in an LNG plant

Oil & Gas Market Consultant

 Provided technical advice to Equinor's LNG facilities in Norway

MSc in Process System Engineering

- Distinction in both taught and project parts
- Programmed microprocessors to simulate processes with a hardware-in-the-loop process

BSc in Chemical Engineering

• 8.1/10: 3rd in class

Polytechnic

University

of Madrid

2009 - 2014

• Established the basis of statistics and coding necessary for Data Science and Software Engineering

Other Projects

User Tracking System

- Designed a tracking system to monitor user activities and progress within the platform
- Programmed seamless integration with Google Sheets API to automate the population of user progress data
- Orchestrated automated notifications using Slack API to notify other team members about progress
- Synchronized the tasks above using webhooks and GitHub actions

AWS Data Pipeline

- Engineered and implemented an AWS-based data platform, consolidating data from multiple cources into a single destination
- Used Python and AWS Glue to apply ETL data from DynamoDB
- Created dashboards to get insights on the processed data using Quicksight

IKEA Furniture StyleGAN

- Scraped the IKEA website for obtaining a dataset of 10k+ furniture images
- Created an application for designing realistic furniture products using a GAN model

Technical Skills



Python Typescript SQL GitHub React AWS **git** Jest **ViTest** PyTest



Matlab PyTorch bash Tensorflow **Docker**



Java Pascal C++ R Raspberry Pi Arduino

Additional

Additional Languages

Spanish (Native), Mandarin (Fluent), English (Fluent)

Certificates

- Tensorflow Developer Certificate Tensorflow
- Machine Learning: From Data to Decisions MIT

