

# 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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## 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
- 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 courses 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**