IVÁN YING XUAN

Full Stack Developer

A full stack developer with a background in chemical engineering who bridges the gap between backend and frontend to deliver user-centric web solutions by implementing robust features and optimizing website performance

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EXPERIENCE

Full Stack Developer | AiCore

📅 06 2022 – Ongoing   📍 London, UK

- Engineered backend systems using AWS API Gateway and Lambda, streamlining database communication and boosting endpoint efficiency by 40%.
- Overhauled website features using React, which resulted in a ~25% increase in user engagement and a reduction in page load times by 35%.
- Architected PostgreSQL database schemas, which allowed an increased communication between teams that needed to access the database.
- Integrated APIs like Intercom, Hubspot, and Discord into the site, which increased customer interaction by 35% and improved service accessibility.
- Devised robust testing protocols using Jest and VITest, which decreased bug reports by ~95% and enhanced website uptime to 99.999%.
- Collaborated in a major initiative to transition the company's data analytics infrastructure to AWS, which achieved a remarkable reduction of up to 72% in data retrieval times.
- Implemented a suite of custom Python scripts and leveraged GitHub Actions for the automation of daily data updates, cutting down the need for manual intervention and increased efficiency by 200%.

Head of Support Engineering | AiCore

📅 06 2021 – 06 2022   📍 London, UK

- Managed and coordinated of a team that provided guidance to over 1000 students in ML, DS, programming, and cloud DevOps, resulting in enhanced learning outcomes and student performance.
- Developed a comprehensive user tracking system, enhancing monitoring capabilities and improving the team's efficiency by 40% with the automation of daily tasks.
- Engineered an integration solution with Google Sheets API, automating user progress data collection, which reduced the time spent on manual data input from 10 hours to 0 hours per week.
- Implemented an automated notification system using the Slack API, improving team communication efficiency and accelerating response times by 80%.
- Developed and deployed API-integrated applications, facilitating a streamlined progress-tracking system for students which led to a 100% course completion rate on time.
- Extracted and analyzed over 15k data points from job listings, which enabled the company to make data-driven decision for the development of new courses.
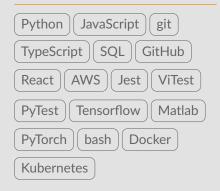
Academic Researcher | Imperial College London

📅 01 2019 – 01 2021   📍 London, UK

- Collaborated with ABB industry experts to produce 4 articles on electrical power management in the Oil & Gas industry, and presented the findings at industry conferences.
- Conducted a comprehensive investigation into advanced power management techniques in the Oil & Gas industry, contributing to a yearly cost savings of £1.5 million in the Snøhvit LNG plant.

SKILLS

Tech Stack

Python   JavaScript   git   TypeScript   SQL   GitHub   React   AWS   Jest   ViTest   PyTest   Tensorflow   Matlab   PyTorch   bash   Docker   Kubernetes

Languages

- **English** - Fluent
- **Spanish** - Native
- **Mandarin** - Fluent

Certifications

- *Machine Learning: From Data to Decisions* - **MIT**
- *Tensorflow Developer Certificate* - **Tensorflow**
- *Microsoft Azure Fundamentals* - **Microsoft**
- *Microsoft Azure AI Fundamentals* - **Microsoft**

EDUCATION

Data Science and Machine Learning | AiCore

10 2020 – 06 2021

PhD in Process and Chemical Engineering | Imperial College London

09 2015 – 09 2019

MSc in Chemical Engineering | Imperial College London

09 2014 – 09 2015

BSc in Chemical Engineering | Polytechnic University of Madrid

09 2009 – 09 2014