Javier Hernández Sánchez

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Profile

MSc in Telecommunications Engineering and 2+ years of professional experience as Software Engineer. Hands-on software and deeply involved in international client communications. Passionate about science and technology. My current motivations are cutting-edge technologies such as Blockchain and Artificial Intelligence. Open-Source advocate.

Experience

SOFTWARE ENGINEER, SENIOR ASSOCIATE | AVANADE
JUN 2023 – PRESENT

Software Engineer at Avanade, an IT consultancy company founded by Microsoft and Accenture. I have provided IT solutions to Zurich Insurance Group by digitalizing Investment Management (IM) and Reinsurance (Re) areas. Hands-on Software, DevOps, and Azure Cloud infrastructure.

KEY ACHIEVEMENTS

- I have designed an ETL pipeline to ingest tons of reinsurance data, introducing new technnologies and expertise in the team. The project had a huge time-constraint and thanks to my design the team could finished the application on time meeting all the technical requirements. **I reduced the code complexity and optimized the ETL algorithm** from $O(n^2)$ to $O(1)$ thanks to matrix/vectorized operations, choosing the right data structures alongside distributed computing.
- Primary **point of contact** with business clients **in international projects** on North America and EMEA.
- **Lowered** Azure infrastructure **annual cost by CHF 20k** by improving algorithms and migrating several Azure resources.
- **Designed** two **data analysis applications**. One for Azure Log analytics using KQL and Power BI and another for analyzing global data purchase costs from the Investment Management area of Zurich.
- Carried on **Azure DevOps** tasks, doing recurrent feedback sessions with the clients, taking application requirements, and writing the User Stories for the team. Implemented **Azure Pipelines** and **Releases** for **CD/CI** for several applications stacks.
- Managed by myself an international and high-risk application because of its global company impact. Shipping several upgrades and given specific support to critical issues.
- **Designed** several **Full Stack Applications** with ASP .NET, Azure Durable Functions, Angular, React, SignalR and MSAL.
- Provided **Network and Cloud Security proposals for all IM Zurich applications hosted in Azure**.
- Veracode and Sonarqube code analysis.
- Improved and given support to over +10 different applications across Zurich Insurance.

SOFTWARE ENGINEER, INTERN | AVANADE
OCT 2022 – JUN 2023

Software Engineer in the Microsoft Ecosystem and Azure.

5G RESEARCH INTERN | UNIVERSIDAD POLITÉCNICA DE MADRID
FEB 2021 – JUL 2021

Design of a 5G NR Simulation Tool for Qualcomm to evaluate the performance of different microcells in urban and industrial environments. Part of the Qualcomm Scholarship and Research Program on 5G Mobile Communications.

Education

MASTER OF SCIENCE, TELECOMMUNICATIONS ENGINEERING, UNIVERSIDAD POLITÉCNICA DE MADRID
SEP 2021 – JUL 2023

Field of specialization: Telematics
Distributed Systems, Networks and Cloud Infrastructure.

BACHELOR OF ENGINEERING, TELECOMMUNICATION ENGINEERING, UNIVERSIDAD POLITÉCNICA DE MADRID
SEP 2017 – JUL 2021

Field of specialization: Telecommunications Systems.
Radiowave and microwave electronics, antenna design, mobile communications, radars and radiodetermination systems.

Languages

🇬🇧 English | Full professional experience
🏳 Spanish | Native

Certifications

AZ-305: Designing Microsoft Azure Infrastructure Solutions | Microsoft
In progress…

Driving License | Dirección General de Tráfico
Issued Feb 2019

First Certificate in English (B2) | Cambridge
Issued Jun 2016

Courses

AI050T00: Develop Generative AI Solutions with Azure OpenAI Service | Microsoft
Issued Dec 2023

GitHub Cloud Certification: Git, GitHub Actions, Copilot and Codespaces | GitHub
Issued Nov 2023 | Show credential

Recurrent Neural Networks and Transformers | Hugging Face
Issued Jul 2023

Docker, Kubernetes, and Infrastructure as Code | freeCodeCamp
Issued Ago 2022

Python Neural Networks with TensorFlow 2.0 | freeCodeCamp
Issued Jul 2022

Strategic and Technical Vision of 5G Mobile Communications | Qualcomm
Issued Jun 2021

Machine Learning: Python and R | Udemy
Issued Sep 2020 | Show credential

Blockchain, Solidity and Web3 Full Stack Development | freeCodeCamp
Issued Jul 2020

Data Science with Python | Universidad Politécnica de Madrid
Issued Jun 2020

Skills and Technologies

Web: NodeJS, ReactJS, AngularJS, TypeScript, ESLint, Vite, esbuild, ExpressJS, HTML5, CSS3, TailwindCSS, Bootstrap, Figma, ChartJS.
Data and AI: Python, Pandas, TensorFlow, Numpy, Matplotlib, Sklearn, MongoDB, GraphDB, VectorDB, Cassandra.
Infrastructure: Apache Spark and Kafka, Docker, Docker Compose, Kubernetes, Ansible, Zookeper, NiFi, Scala, CEPH, HDFS, Wireshark.
Azure: Azure Durable Functions, Data Factory, Key Vault, Blob Storage, Azure Service Bus, Azurite, KQL, Azure Log Analytics, Application Insights, SignalR, MSAL, Azure SQL Server, Logic Apps.
Azure Networks: Azure VNET, Subnets, Route Tables, Network Security Groups, API Gateways, CORS, Firewalls, Custom Gateway, API Management.
Microsoft: C#, ASP .NET, Power BI, Power Apps, SharePoint, Power Platform, Power Automate, Outlook, Teams, OneDrive. Dapper, Entity Framework, Excel, Closed XML, SOAP, and REST APIs.
DevOps: GitHub, Azure DevOps, Azure Pipelines and Releases for CI/CD, SonarQube, Veracode, GitHub Actions, Agile, Git.
Blockchain: Solidity, Truffle, Ganache, Geth, Blockchain Architecture, Drizzle, Web3, EthersJS.
Other: Java, PHP, Matlab, C, R, Assembly, LISP, VHDL.