

# Andrés Navarro Pedregal

A passionate and **results-oriented engineer** with a strong interest in **cloud solutions architecture**, **system design**, and **DevOps**. Equipped with **strong analytical** and **problem-solving skills**, coupled with a commitment to **continuous learning** and **self-improvement**. Eager to contribute to a dynamic and innovative tech environment, tackling real-world challenges.

## EXPERIENCE

### RESEARCH CLOUD TECHNICIAN | UC3M DEPT. 2023 – Present

- Designed, architected, and developed a cloud-based full-stack service, with different **AWS tools** like **Cognito**, **DynamoDB**, **S3**, and **LB**.
- Leveraged **IaC** tools like **Terraform** or **Docker** containers.
- Architected a scalable and efficient software architecture with **Next.js**, **React**, **Express.js** and **AWS CodePipeline**.
- Effectively communicated complex technical concepts** to stakeholders and collaborated with professors.

### CLOUD & ML TEAM LEAD ENGINEER | SAETA UC3M 2022 – Present

- Led the design and implementation of **cloud-based infrastructure**, employing **Terraform**, **SageMaker** and **TensorFlow** to train CNNs.
- Demonstrated **leadership skills** and embraced **agile methodologies**, utilized **Git** for version control.
- Presented technical solutions** to team members clearly and concisely.
- Adapted** to challenges demonstrating **autonomy** and **self-learning**.

### LINUX SYSTEM ENGINEER & MAINTAINER | NIXOS FOUNDATION 2023

- Packaged software more reliably and portability utilizing **containers** and **virtual machines** for testing and **Nix** for package declaration.
- Collaborated with a **team of 5 people across Europe**. Gained a deep understanding of **team** and **code collaboration**.
- Established **CI/CD pipelines**, demonstrating strong **automation skills**.

### SOFTWARE DEVELOPER & CO-FOUNDER | FREELANCE 2018 – 2021

- Developed **Android apps** and **websites** for more than 15 businesses.
- Managed **server administration** and learned about **Linux** and **Bash**.
- Presented solutions to clients, resolving issues, and **prioritizing clients**.

## EDUCATION

### DUAL BACHELOR IN DATA SCIENCE AND ENGINEER AND TELECOMMUNICATION ENGINEERING 2020-2025

UNIVERSIDAD CARLOS III DE MADRID ([LINK](#))

- Highest grade of 8.5/10, earning the **Scholarship for Excellence** achieving **honors in 10 different subjects**.
- First year degree**, completely new and taught in **English**.
- Subjects from **big data**, **deep learning** or **data engineering** to **networking and communication protocols**, **cybersecurity**, **data protection & privacy**.
- Advance knowledge of **Python**, **Java**, **SQL**, **C**, **R**, **Linux** and **Bash**; and frameworks like **Docker**, **Django**, **Pyomo**, **Github Actions**, etc.

### GOOGLE ML BOOTCAMP 2022

- Acquired proficiency in **Python** and **TensorFlow**, and **machine learning principles** and practical skills, including neural networks.



## PROJECTS

- Development a **distributed home lab** with 7 computers and a **Kubernetes cluster**.
- Bot for image creation from news with **Stable Diffusion** as a NFT.
- Development of an **Ethereum dApp** for tribes and private clubs.
- Automatic data ingestion** and **ETL pipeline** for a home solar system.

## CERTIFICATIONS

### TENSORFLOW DEVELOPER CERTIFICATE

| GOOGLE 2022

### DEEP LEARNING SPECIALIZATION |

DEEPLARNING.AI 2022

### TOEFL (ADVANCED)

## SKILLS

### PROGRAMMING

Python • Bash & Linux • Terraform • Nix • C • Java & Kotlin • R • SQL • Solidity • JS & TS

### TOOLS & PLATFORMS

AWS • Jenkins • NixOS • React & NextJS • Django & Flask • Git • PostgreSQL & MongoDB

### HIGH LEVEL

Cloud Computing • Architecture • Security • ML & AI • Networking

### SOFT SKILLS

Presentation • Public Speaking • Troubleshooting • Adaptability • Teamwork • Problem-Solving

## LANGUAGES

SPANISH Native

ENGLISH Bilingual (C2)

GERMAN Intermediate (B1)

## INTERESTS

Cloud • DevOps • Open Source • Business • Personal Development • Continuous Learning