

ANDRES NAVARRO PEDREGAL

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AWS Certified Solutions Architect Professional with expertise in cloud, DevOps, and software engineering. Experienced in designing and implementing software solutions in customer-facing roles. Proven track record of delivering exceptional results and a strong commitment to learning and problem-solving.

EDUCATION

Dual Bachelor in Data Science & Telecommunication Engineering

University Carlos III of Madrid | Among the Top Engineering Universities in Spain

Sept 2020 – Expected Feb 2025

Madrid, Spain

- Achieved **11 honors**, **3 scholarships**, and a 3.55 GPA (8.25/10), finishing 372 ECTS and 2 thesis in 4.5 years
- Extensive coursework in networking, operating systems, databases, machine learning, and cybersecurity

EXPERIENCE

Research Assistant in Cloud & Distributed Systems

Telematics Department at UC3M | Research Group with 10+ Researchers

July 2023 – Present

Madrid, Spain

- **Architected hybrid-cloud system** across 15+ devices with Node.js, AWS EC2, and DynamoDB, achieving 99% uptime
- Responsible for gathering requirements and explaining solutions to 5+ technical and non-technical stakeholders
- Implemented CI/CD pipelines with AWS CodePipeline, Ansible, and ZeroTier, automating 90% of deployment tasks
- Published **research papers on networking** and telecommunications, leveraging Linux, IP routing, and VPNs

Cloud & Machine Learning Team Lead Engineer

SAETA | University Association for Autonomous Drones

Feb 2022 – June 2024

Madrid, Spain

- Implemented ML pipelines with AWS Rekognition and AWS StepFunctions, reducing data processing time by 50%
- Architected and maintained a cloud infrastructure, leveraging Terraform, AWS Organizations, and IAM
- Recruited and managed a team of 5+ engineers, providing technical guidance and mentoring in cloud and ML
- **Presented the project to 30+ companies** at the AWS Summit Madrid and South Summit, receiving 2000 € in funding

Research Intern in Software Engineering & DevOps

CERN | Largest Particle Physics Laboratory in the World

June 2024 – Aug 2024

Geneva, Switzerland

- Optimized Python, Bash, and C++ software tools for high-energy particle detectors, reducing runtime by 25%
- **Administered Linux servers**, deploying and maintaining 10+ services with Docker, OpenStack, and Kubernetes
- Built real-time monitoring dashboards and alerts with Grafana and InfluxDB, ingesting 50+ metrics per second

Microsoldering Repair Service

Sept 2019 – Sept 2023

- Self-taught microsoldering technician, repairing 1000+ devices across Spain and building a 5-figure business
- Explained complex technical issues simply and understandably for 100+ customers of all technical levels

Freelancing Software Agency

Sept 2018 – Dec 2021

- Developed 20+ web and mobile apps and administered 10+ Linux servers using Java, Python, JavaScript, and Bash
- Provided **technical support, maintenance, and training to 20+ clients**, becoming a top-rated freelancer on Fiverr

SKILLS

Programming: Python, Java, JavaScript (4 years), Linux, Bash (6 years), R, SQL, C, Nix (2 years), PHP, Rust (1 year)

DevOps: Docker, Terraform, GitHub Actions (2 years), AWS CodePipeline, AWS CloudFormation, Ansible (1 year)

Storage: PostgreSQL, SQLite, AWS DynamoDB, AWS S3 (2 years), Redis, MongoDB, InfluxDB (1 year)

Soft Skills: Problem-Solving, Selling, Public Speaking, Time Management, Teamwork, Self-Learning, Adaptability

LANGUAGES

Spanish (Native), English (C1), German (B1)

INTERESTING INFORMATION

- Programming since the age of 12 and entrepreneurship since 16, with a passion for business and technology
- Traveled to 20+ countries and lived in 3, cultivating communication, English, and interpersonal skills
- 1st in the 2019 Michigan Golf State Championship and 84th in the 2017 Spanish National Golf Championship