

Esteban Marín

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EDUCATION

UNIVERSIDAD COMPLUTENSE DE MADRID

MS IN DATA SCIENCE

2025 -2026 | Madrid, Spain

Cum. GPA: 9.18 / 10

UNIVERSIDAD DE COSTA RICA

BS IN COMPUTER SCIENCE

2018 -2021 | San José, Costa Rica

Cum. GPA: 9.50 / 10

COURSEWORK

DATA SCIENCE

Big Data

Decision models in marketing

Global risk management

Machine learning

COMPUTER SCIENCE

Artificial Intelligence

Compilers

Computer Architecture

Computer Networks

Operating Systems

Parallel & Concurrent Programming

Software Engineering

SKILLS

PROGRAMMING

Proficient

Python • TypeScript

Familiar with

BASH • C • C++ • C# • Dart

Go • Java • $\LaTeX$ • R • SQL

TOOLS

AWS • Azure • Django • Docker • Git

Jenkins • MongoDB • NextJS • OpenMP

ReactJS • Storybook • PostgreSQL

LANGUAGES

Advanced

Spanish • Native

English • C1

Intermediate

French • B2

CERTIFICATIONS

AI-900 • AZ-900 • DP-900 • SC-900

EXPERIENCE

MICROSOFT | SOFTWARE ENGINEER

Nov 2024 – Aug 2025 | San José, Costa Rica

- Served as Tier-3 on-call engineer for Azure Cosmos DB, mitigating high severity incidents for 4,500+ enterprise clients and maintaining 99.99% SLAs.
- Executed zero-downtime hotfixes for critical, pre-disclosure security vulnerabilities across globally distributed Cosmos DB clusters.
- Architected an Account Key caching and rotation mechanism, preventing client disconnects, and significantly reducing authentication-related support tickets.
- Authored developer documentation for the Cosmos DB local emulator, increasing adoption across engineering teams, accelerating local testing, and reducing Azure infrastructure costs.

THOROPASS | SOFTWARE ENGINEER

Nov 2022 – Oct 2024 | New York, United States (Remote)

- Integrated robust MFA and SSO (OAuth 2.0/SAML) authentication flows, securing sensitive compliance data for enterprise clients.
- Drove a UI modernization initiative across 20% of the platform, building a reusable, WCAG-compliant component library in tight collaboration with Product and Design.
- Remediated critical security vulnerabilities (SQLi, XSS, DoS) identified during external audits, ensuring adherence to SOC2/HIPAA compliance standards.
- Presented engineering milestones to C-level executives, connecting technical progress with Customer Effort Score improvements and business outcomes.

BACKCOUNTRY | SOFTWARE ENGINEER

Jan 2022 – Oct 2022 | San José, Costa Rica

- Migrated mission-critical e-commerce flows (Cart, Checkout) to Next.js and React, improving page load speeds and SEO performance.
- Implemented a configuration-driven banner system that allowed Marketing to publish promotional campaigns without code changes or deployment cycles.
- Elevated platform observability by designing and deploying custom Sumo Logic dashboards to monitor critical e-commerce flows (e.g., checkout API latency, frontend error rates), shifting the team toward proactive incident response.
- Wrote onboarding and architecture documentation that reduced the ramp-up time for new engineers.

RESEARCH

URBAN ACOUSTIC FORECASTING | RUIDOMADRID.COM

Nov 2025 – Jul 2026

Developed a predictive data pipeline for urban noise pollution levels across Madrid. The project applies time-series clustering to identify distinct geographic acoustic patterns, utilizing a blend of Machine Learning models and classical statistical methods to generate accurate environmental forecasts.

AWARDS

2020 **ICPC.** World Finalist, Moscow, Russia

2018 **UCR.** Highest Overall GPA School of Computer Science and Informatics

2017 **UCR.** 69th/42 075 in Admission Exam (*Awarded full-tuition scholarship*)

2017 **TEC.** 29th/17 056 in Admission Exam (*Awarded full-tuition scholarship*)

2017 **FCACR.** National U18 Chess Champion (*Highest-ranked U18 player in Central America*)