

Marc Vernet SOFTWARE ENGINEER

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Software Engineering • Full Stack Development • Cloud Solutions • Machine Learning • DevOps

AWS • Kotlin • Python • React • Rust • CI/CD • ML/AI • Distributed Systems

WORK EXPERIENCE

Software Development Engineer Amazon Luxembourg	Jul. 2022–Present Luxembourg
<ul style="list-style-type: none">Developed and maintained systems for processing worldwide logistics networks delivering millions of packages dailyCollaborated on developing internal agentic AI tooling with Rust, used across all of AmazonDecreased system downtime with operational support processes across services used by 500+ users daily, resolving critical bugs and implementing requested featuresStreamlined development and reduced infrastructure maintenance time by 50% through implementing CI/CD pipeline with AWS CDK for internal applicationsContributed to design and implementation of new service for network logistic simulations that delivered \$3.5M in optimization savingsImproved code maintainability through orchestrating Java-to-Kotlin migration for 10,000+ lines of code and achieving 95% test coverage with new unit/integration testsAccelerated team growth by mentoring 2 interns to full-time conversion, producing technical documentation guides that reduced onboarding time by 50%Delivered on average 95% of sprint commitments while serving as Scrum Manager, additionally conducting over 200 code reviews	
Business Intelligence Engineer Amazon Luxembourg	Jan. 2022–Jul. 2022 Luxembourg
<ul style="list-style-type: none">Increased internal database anomaly detection through implementing ML-powered infrastructure monitoring service, analyzing 1M+ data points dailyDesigned and developed UI for anomaly detection service with React and AWS, supporting 50 users dailyDeveloped several HR BI dashboards collaborating with organization leadership, serving 10,000 monthly usersImproved database performance through optimizing SQL queries for AWS RDS cluster, reducing average query time while serving 5 internal organizationsEliminated 40+ hours of manual work monthly by automating administrative tasks using AWS Lambda and Python, additionally implemented and deployed comprehensive CI/CD pipeline for these tools	
Research Intern Universitat Rovira i Virgili (URV)	Jan. 2021–Jan. 2022 Barcelona, Spain
<ul style="list-style-type: none">Increased data completeness through developing ML predictive models for air pollution levels, processing daily measurements across 12 monitoring stationsCollaborated as co-author on academic paper and scientific journal article, showcasing research findings	

EDUCATION

B.S. in Data Science and Engineering Polytechnic University of Catalonia (UPC)	Sep. 2018–May 2022 Barcelona, Spain
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TECHNICAL SKILLS

- Languages:** Kotlin, TypeScript, Java, Rust, Python, SQL, C++
- Frameworks:** React, Angular, Node.js, SpringBoot, Django, Rails, Nginx, LaTeX
- Technologies:** RESTful APIs, Microservices, Linux/Unix, MySQL, PostgreSQL
- Concepts:** Object-Oriented Programming, System Design, Agile Development, CI/CD, Test-Driven Development (TDD)
- Cloud:** AWS CDK, AWS CI/CD pipelines, AWS Redshift, serverless development, AWS Lambda, CloudWatch

CERTIFICATIONS

2023	AWS Solutions Architect (SAA-C03)
2022	AWS Certified Cloud Practitioner
2022	Cisco CCNA, Introduction to Networks