

Marc Vernet SOFTWARE ENGINEER

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WORK EXPERIENCE

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| Software Development Engineer Amazon Luxembourg | Jul. 2022–Present Luxembourg |
| <ul style="list-style-type: none">Delivered \$3.5M in annual optimization savings as measured by reduced logistics costs, by designing and implementing network simulation service that improved route efficiency.Enabled 30% reduction in development time as measured by feature delivery cycles, by developing internal agentic AI tooling with Rust used across all of Amazon.Improved code maintainability and reduced technical debt as measured by bug reduction and test coverage, by orchestrating Java-to-Kotlin migration for 10,000+ lines achieving 95% test coverage.Reduced infrastructure maintenance time by 50% as measured by operational overhead, by implementing CI/CD pipeline with AWS CDK enabling automated deployments.Maintained 99.9% uptime as measured by system availability, by developing and maintaining high-performance systems processing millions of packages daily across worldwide logistics networks.Reduced system downtime by 40% as measured by incident frequency, by implementing operational support processes and resolving critical bugs across services used by 500+ daily users.Accelerated team onboarding by 50% as measured by time-to-productivity, by mentoring 2 interns to full-time conversion and producing comprehensive technical documentation.Delivered 95% of sprint commitments as measured by sprint velocity, by serving as Scrum Manager and conducting 200+ code reviews ensuring code quality standards.Reduced system latency by 35% as measured by p99 response times, by implementing distributed caching layer using Redis and optimizing data access patterns across microservices architecture. | |
| Business Intelligence Engineer Amazon Luxembourg | Jan. 2022–Jul. 2022 Luxembourg |
| <ul style="list-style-type: none">Reduced false positives by 60% as measured by alert accuracy, by implementing ML-powered infrastructure monitoring service analyzing 1M+ data points daily for anomaly detection.Reduced average query time by 40% as measured by database performance metrics, by optimizing SQL queries for AWS RDS cluster serving 5 internal organizations.Eliminated 40+ hours of manual work monthly as measured by time savings, by automating administrative tasks using AWS Lambda and Python with comprehensive CI/CD pipeline.Enabled data-driven workforce decisions as measured by dashboard usage, by developing HR BI dashboards serving 10,000 monthly users and providing actionable insights for leadership.Improved anomaly detection response time by 80% as measured by alert latency, by designing and developing responsive UI with React and AWS supporting 50 daily users with real-time alerts. | |
| Research Intern Universitat Rovira i Virgili (URV) | Jan. 2021–Jan. 2022 Barcelona, Spain |
| <ul style="list-style-type: none">Improved prediction accuracy by 25% as measured by model performance metrics, by developing ML predictive models for air pollution levels processing daily measurements across 12 monitoring stations.Contributed to published research as measured by peer-reviewed publication, by co-authoring academic paper and scientific journal article in environmental research advancing air quality monitoring methodologies. | |

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
- Software Engineering:** System Design, CI/CD, DevOps, Test-Driven Development (TDD), Agile/Scrum
- Cloud:** AWS CDK, AWS CI/CD pipelines, AWS Redshift, serverless development, AWS Lambda, CloudWatch

CERTIFICATIONS

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

EDUCATION

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