

Raffaele Russo

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Software Engineer with 3 years building backend and distributed systems for airline pricing and availability. High-impact optimization work: **37× lower API latency**, **60× faster pipelines**, **14× throughput**. Also co-founded and led engineering for a serverless AWS platform. Seeking backend, distributed systems, or cloud infrastructure roles.

SKILLS & TOOLS

Languages: C++, Python, Java

Cloud & Infrastructure: OpenShift, Kubernetes, Docker, Helm, Linux, AWS (Lambda, API Gateway, S3, CloudFront, Cognito, Amplify), GCP, CDK

Observability & CI/CD: Splunk, Prometheus, Grafana, Jenkins, GitHub Actions, Git

Databases & Caching: SQL (Oracle), Couchbase, MongoDB, DynamoDB, Redis

Spoken Languages: Italian (native), English (fluent), French (B1)

EDUCATION

MSc in Computer Engineering | University of Naples Federico II | 2021 – 2024 | **110/110 cum laude**, special mention

BSc in Computer Engineering | University of Naples Federico II | 2018 – 2021 | **110/110 cum laude**

Erasmus Exchange: Tampere University, Finland (Jan 2023 – Jun 2023)

Publications: 2× IEEE Big Data publications (2023, 2024) — European law classification & search engine

WORK EXPERIENCE

Amadeus | Nice, France

Software Development Engineer

Oct 2025 – Present

- Eliminated redundant external API checks with transaction-level memoization, cutting request time from **67s (over the 15s timeout) to 1.8s** and raising the per-request ceiling from **10 to 100,000 pricing strategy rows**.
- Restructured upstream request batching, raising sustained throughput from **7 to 100 tps**.
- Designed a profile-based cache invalidation system for a new availability feature, hardened against timeouts and edge cases; owned the test plan and production triage, cutting operating costs by **\$80k/month** across the first two customers.
- Led on-call operations for airline pricing and caching systems, resolving production incidents and data replication defects across inventory tiers; cut response time **10%**.
- Analyzed Splunk production logs and eliminated redundant signals, reducing logging costs by **26%**.
- Rebuilt the invalidation pipeline around batching and exponential backoff, cutting a **1-hour workflow to 1 minute (60×)** for critical airline operations.

Software Engineer (contractor)

Mar 2024 – Oct 2025

- Designed and deployed a carbon-aware distributed system on Google Cloud, cutting an estimated **470 tons of CO₂** annually.
- Built a REST API to migrate a legacy system to Azure, demonstrated live to 150+ employees.

Stealth Startup | Tallinn, Estonia

CTO and Co-founder

Nov 2025 – Present

- Architected a serverless platform on AWS (Lambda, API Gateway, DynamoDB, Redis) with CDK, load-tested to **5,000+ concurrent users**.
- Selected for the **Tehnopol Science and Business Park** startup accelerator.

Image Processing Research Group | Naples, Italy

Research Intern

Oct 2023 – Mar 2024

- Investigated diffusion models for master's thesis, focusing on adversarial defenses to protect artist styles against AI mimicry.