

Luca Ricci

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Education

ETH Zurich (Swiss Federal Institute of Technology)

PhD in Computer Science (Systems Group)

Sep 2012 – Aug 2016 | Zurich, Switzerland

Thesis: 'High-Performance Networking for Distributed Data Processing'

ETH Zurich

Master of Science ETH in Computer Science

Sep 2010 – Aug 2012 | Zurich, Switzerland

Università di Pisa

Bachelor of Science in Computer Engineering

Sep 2007 – Jul 2010 | Pisa, Italy

Work Experience

Principal Software Engineer | Google | Sep 2016 - Present | Zurich, Switzerland

- Led the design and implementation of large-scale distributed systems underpinning core Google services (e.g., Search infrastructure, Ads systems - hypothetical focus).
- Specialized in low-latency, high-throughput backend systems using Java, C++, and Python.
- Drove technical strategy and roadmap for critical infrastructure components.
- Mentored senior engineers and tech leads across multiple teams.
- Solved complex problems related to concurrency, distributed consensus, and data consistency.
- Contributed to internal frameworks and published research internally/externally.

Skills

Programming: Java (Expert), C++ (Expert), Python (Proficient), Go (Intermediate)

Distributed Systems: System Design, Scalability, High Availability, Fault Tolerance, Consistency Models (Paxos, Raft basics), Concurrency Control, RPC Frameworks (gRPC), Message Queues (Kafka, Pub/Sub)

Networking: TCP/IP, Sockets, High-Performance Networking (RDMA basics)

Databases: Distributed Databases (Spanner, Bigtable basics), SQL/NoSQL Concepts

Tools: Git, Google Internal Build/Deploy Tools, Protocol Buffers, GDB

Methodologies: Large-Scale System Architecture, Performance Optimization, Algorithm Design, Code Review, Technical Leadership

Other Skills: Mentoring, Strategic Thinking, Problem Solving

Certificates

None typically specified at this level

Awards

Google Founders' Award (Hypothetical top internal award)

ETH Medal for Outstanding Doctoral Thesis