

Brice S. Robert

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SUMMARY

FPGA and RF Developer, Cloud Architect, and DevOps Engineer specializing in custom hardware for radio units, FPGA systems, and RF technologies. Strong background in system architecture, cloud computing, and big data, with proficiency in AWS, Kubernetes, Docker, and various programming languages. Skilled in large-scale infrastructure solutions and leading cross-functional teams.

TECHNICAL SKILLS

- FPGA/RF:** FPGA design, RF systems, Nuand BladeRF, ETTUS USRP B250, Xilinx, Lattice, VHDL
- ISA:** RISC-V, ARM, SIMD Intrinsics, AXI
- Cloud:** AWS, OpenStack, Terraform, Kubernetes, Docker, Ansible
- Languages:** Java, Scala, C++, Python, Swift, Clojure, JavaScript, Rust, Objective-C
- DevOps:** Jenkins, Git, SVN, CI/CD, Linux (Ubuntu, RedHat), Windows
- Databases:** Oracle, MySQL, Cassandra, MongoDB, Sybase
- Big Data:** Hadoop, Spark, Kafka, NoSQL
- Methodologies:** Agile, RUP, UML, TDD

PROFESSIONAL EXPERIENCE**OpenAI Development Projects** | Summer 2024

- Ported O-RAN 7.2 Fronthaul Interface to ARM platform; tested with compatible Radio Unit (RU) and interfaced BladeRF 2.0 micro xa4.
- Implemented DMRS Channel Estimation Parallelization (multithreading) in OAI's PHY layer.

Ericsson – Lead Developer | Aug 1999 – Jan 2001

- Integrated CORBA and Java for OSS and Jambala; developed GUI for alarm monitoring and data retrieval.
- Implemented core network access through a direct payment system for Mexican Telco.

Consultant/Developer (BT North-America, Equant, Microcell Solution) | 2002–2011

- Delivered telecom OSS/BSS solutions using Java, Oracle, and Perl.

France Telecom – Oracle Developer | Jan 1995 – Jul 1996

- Developed ERP/CRM software for telecom operators, using Oracle tools for billing and management.

SITA – System Architect | May 1999 – Jul 1999

- Developed onboard email systems for British Airways using SITA's satellite network; integrated X25 with TCP/IP.

Université de l'Ontario Français – Cloud Architect | Feb 2020 – Jul 2023

- Managed Kubernetes clusters and cloud infrastructure (AWS, Terraform, Docker); provided educational apps on Kubernetes.

College Boreal – DevOps Professor | Dec 2015 – Jul 2023

- Taught DevOps tools (AWS, GCP, Azure, Linux, Kubernetes, Docker) to prepare students for industry standards.

Interactive Data – Core Developer | Oct 2011 – Jan 2015

- Designed low-latency financial data systems for futures and ETFs using Java, Akka, and Hadoop.

Merrill Lynch – Core Developer | May 2010 – Sept 2011

- Restructured credit derivatives infrastructure; developed services for global credit risk analysis.

Citigroup – Lead Architect | Sept 2009 – Mar 2010

- Developed eDelivery engine for global electronic statements; optimized for performance and load balancing.

AllianceBernstein – Systems Architect | Oct 2006 – Aug 2009

- Optimized software with OSGi architecture; integrated ETL systems for financial data workflows.

EDUCATION

- MSc in Intelligent Communication Systems** – EURECOM, expected 2025
- MS in Business Management (Finance/Treasury)** – McGill University, 2004 (unfinished)
- BSc in Computer Science** – C.N.A.M Paris, France, 1998

CERTIFICATIONS

- Google Cloud: Professional Cloud Architect, Elastic Infrastructure, Core Infrastructure, Core Services, Reliable Infrastructure, Foundation (2020)
- CCNA R/S and Security (in progress)