Guido (Ucho) D'Alessandro

Software Engineer • AI & Predictive Systems • Distributed Databases • C++/Python

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Professional Summary

Innovative software engineer with decades of experience in C, C++, and AI systems, specializing in modeling and predicting chaotic deterministic systems. Proven ability to design, optimize, and deliver large-scale distributed solutions, with a track record spanning neural networks, predictive analytics, and high-performance systems.

Technical Skills

Programming Languages: C, C++, Python
Systems & Tools: Linux, Git, Distributed Databases, Fork-based Processing
AI/ML: Neural Networks, Predictive Analytics, Chaos Theory Modeling
Other: Grafana, InfluxDB, Cloud Concepts

Professional Experience

Andersen Consulting / Andersen Computing – Software Engineer
Northwest Airlines Passenger Accounting System
• Rescued critical project by re-architecting system with fork-based pipeline, reducing ticket-pricing audit runtime from 6 seconds to 0.4 seconds.
• Applied distributed database expertise to optimize real-time performance.

Independent Researcher / Developer – Predictive Systems Lab
• Developed a 400,000+ line C++ codebase to model and forecast chaotic deterministic systems.
• Pioneered methods using inverse neural networks for state-space prediction.
• Built systems later recognized as foundational to cloud computing concepts.

Freelance Consultant – Data & AI Projects
• Delivered optimized Grafana/InfluxDB dashboards for clients, including panel restructuring, query efficiency, and visual design improvements.
• Technical writing and project documentation aligned with Microsoft Manual of Style.

Education

Regents College (University of the State of New York) – Credit via GRE Examinations

Selected Projects

• Predictive Systems Lab – Proprietary C++ system for chaotic deterministic forecasting.
• Distributed Passenger Accounting – Northwest Airlines (optimized using fork pipeline).

• Grafana Optimization – Freelance delivery of optimized dashboards.

References available upon request.