

# VERONICA DUMITRIU

Portfolio, Publications, Talks & Projects: [veronica-dumitriu.com](https://veronica-dumitriu.com)

**Principal Product Manager | AI Systems | Developer Platforms | Data Infrastructure | Research to Product Execution**

San Francisco, CA | 650.483.9025 | [verone@gmail.com](mailto:verone@gmail.com) | [linkedin.com/in/veronicadumitriu](https://linkedin.com/in/veronicadumitriu)

Technical product leader with 20+ years across AI, machine learning, developer platforms, data infrastructure, analytics, and enterprise software. Experienced driving strategy and execution across globally distributed engineering, product, customer, and executive stakeholder organizations. Lead Oracle Data Access and Database Drivers, including python-oracledb, ROracle, ODBC, and related technologies supporting database connectivity, high availability, performance, and AI-native developer workflows. Hands-on builder across vector search, embeddings, RAG systems, AI agents, workflow automation, geospatial analytics, databases, and developer tooling. Public speaker, educator, founder, and product leader operating at the intersection of research, engineering, and product strategy.

## CORE STRENGTHS

**AI Systems:** LLMs, RAG, retrieval systems, embeddings, vector search, semantic search, AI agents, MCP, evaluation, applied machine learning

**AI Product Development:** AI-assisted software development, agentic workflows, rapid prototyping, OpenAI, Claude, Cursor, Codex

**Developer Platforms & Infrastructure:** Python, R, SQL, APIs, SDKs, database drivers, connection pooling, asyncio, pipelining, high-availability, OpenTelemetry, FastAPI, open-source integrations, Oracle AI Database, Oracle Vector Search, OCI Generative AI

**Developer Ecosystems:** developer tooling, community building, open-source engagement, developer programs

**Research:** machine learning, data mining, experimentation, information retrieval, analytics, statistical modeling

**Product Leadership:** 0->1 products, platform strategy, roadmap ownership, customer discovery, ecosystem building, cross-functional execution, research to product execution

**Technical Communication:** conference speaking, technical content writing, developer advocacy, customer education, technical training

## TECHNOLOGIES

Python, R, SQL, FastAPI, PyTorch, Hugging Face, ONNX, ResNet, GeoPandas, Oracle AI Database, Oracle Vector Search, OCI Generative AI, n8n, MCP, OpenAI APIs, Anthropic APIs

## EXPERIENCE

### Principal Product Manager, Data Access and Database Drivers | Oracle | 2022 - Present

- Lead product strategy for Oracle database drivers and AI-native developer workflows used by millions of developers worldwide building data-intensive and AI applications. Own roadmap for Oracle Data Access and Database Drivers, including python-oracledb, ROracle, ODBC, and related developer technologies serving a global developer ecosystem. Own roadmap spanning database APIs, connection pooling, high availability, performance, asyncio, parallel data fetching, OpenTelemetry, and developer experience
- Built demos, tutorials, and production-grade prototypes spanning vector search, RAG, AI agents, geospatial analytics, and developer workflows while driving developer adoption, feedback collection, and ecosystem growth through the Global Developers Program for Python (GDP4Py), connecting more than 60 Oracle teams and 20 strategic customers

### Founder, Spirala.ai | 2026 - Present

- Building an AI-native fertility intelligence platform combining medical history, IVF cycles, embryology data, labs, and personal health signals into personalized decision support

### Principal Product Manager, Machine Learning | Oracle | 2021 - 2022

- Led product strategy and delivery for machine learning systems spanning customer churn prediction, growth scoring, and recommendation models. Worked across product, data science, and engineering to translate business problems into production ML capabilities and owned security architecture for the customer success platform

### Principal Product Manager, Oracle Analytics Applications | Oracle | 2019 - 2021

- Led product delivery for Fusion Analytics Warehouse, with focus on Financials Analytics. Partnered with enterprise customers, customer advisory boards, engineering, product teams and senior business leaders to shape roadmap priorities, drive adoption, and deliver analytics capabilities supporting finance organizations. Owned key platform initiatives like security architecture, multilingual support, extensibility, and integrations,

while representing product strategy through Oracle OpenWorld speaking engagements and customer-facing programs

#### **Product Manager, ERP Analytics | Oracle | 2017 - 2019**

- Owned product strategy, roadmap, beta programs and organized customer advisory boards, partnering with key customers on release design and test programs

#### **Information Architect, Director | Oracle | UK, Netherlands | 2015 - 2017**

- Led architecture and delivery for large-scale analytics, data, and cloud transformation programs. Worked across business, engineering, and executive stakeholders to translate complex requirements into scalable systems, implementation roadmaps, and production deployments

#### **Founder and CEO | Veracity Strategies Ltd. | London, UK | 2014 - 2025**

- Founded and led a data and analytics consulting practice serving enterprise clients across the UK and Europe. Directed solution architecture, technical strategy, and executive stakeholder engagement across large-scale data platforms, analytics systems, and business-critical decision support initiatives

#### **Lead Consultant | Capgemini Financial Services | London, UK | 2012 - 2014**

- Led large-scale data and analytics transformation programs across financial services and insurance organizations. Directed architecture, data platform design, reporting strategy, and cross-functional delivery for business-critical decision support systems

#### **Senior Consultant | Beyond Systems Ltd. | Manchester, UK | 2009 - 2012**

- Designed and delivered data platforms, analytics systems, and enterprise reporting solutions across multiple industries. Worked across architecture, data integration, security, deployment, and stakeholder engagement to bring complex systems into production

**Earlier roles:** Early career depth in software development and enterprise applications (2003 - 2007)

### **SELECTED PROJECTS**

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Spirala.ai, SignalPM, MentalogicAI

Vector Similarity Search with Python and Oracle AI Database for e-commerce

Python RAG and hybrid search with Oracle AI Database

AI Workflow Automation with n8n and Oracle AI Database

Spatial Analytics with GeoPandas and Oracle AI Database

Details, additional projects, publications, talks, demos, and technical content at [veronica-dumitriu.com](https://www.veronica-dumitriu.com)

### **RESEARCH**

#### **Data Mining and Applied Algorithm Research | KSS Retail Ltd. & University of Manchester**

- Conducted applied research at the intersection of machine learning, statistics, and retail demand modeling. Developed and validated algorithms for identifying substitution and complementary effects in transactional data, combining Apriori methods, statistical testing, and correlation analysis. Conducted large-scale experimentation using SQL, R, and Oracle Data Miner to improve demand forecasting and pricing decisions

### **TECHNICAL COMMUNICATION**

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Conference speaker across Oracle OpenWorld, PyCon, DeveloperWeek, AI DevWorld, R Consortium, and other international developer conferences. Published technical content through Oracle, AskTom, Medium, YouTube, and authored technical tutorial [Getting Started with Python and Oracle Database](#)

### **EDUCATION**

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**Stanford University Continuing Studies**, Entrepreneurship and Startup Formation, 2026

MPhil, Computer Science, **University of Manchester, United Kingdom, 2009**

Research Thesis: [Data Mining for Automatic Detection of Substitution and Complementary Effects in Retail Transactional Data](#)

B.Sc., Computer Science, **Academy of Economic Studies, Romania, 2003**

School of Cybernetics, Statistics & Applied Computer Science

### **CERTIFICATIONS**

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- Oracle AI Vector Search Professional
- Oracle Business Intelligence Foundation Certified Specialist
- Professional SCRUM Master - PSM1
- Databricks Lakehouse Platform Accreditation