

Julius Lange

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AI and Analytics consultant with a background in physics from a world leading university. Curious and ambitious problem solver, excellent team-player, and adept in international settings. Driven by continuous learning and excelling at the intersection between technology and business.

AREAS OF EXPERTISE

- GenAI & LLM Systems
- Data Engineering
- AI Strategy
- Interdisciplinary Teams
- Cloud & MLOps
- Client Advisory

PROFESSIONAL EXPERIENCE

Woodmark Consulting AG, Berlin, Germany
Consultant

09/23 – ongoing

- Designed and implemented a RAG-based GenAI solution for a financial services client to automate customer service workflows; built a multi-stage pipeline with retrieval optimization, knowledge base enhancement, and continuous monitoring achieving >70% fully automated ticket resolution
- Developed an AI-driven report generation system for a financial services client, combining structured portfolio data with unstructured market intelligence (e.g., Bloomberg reports) to automatically generate compliant portfolio performance reports
- Built an onboard sales forecasting service for an airline catering client on Databricks; engineered end-to-end data pipelines, trained and deployed ML models, and implemented automated write-back of predictions into the production database; solution currently in testing with a major European airline
- Member of internal AI Task Force shaping firm-wide AI strategy; evaluated emerging LLM and agentic frameworks, contributing to the selection of the company's target architecture and development stack
- Contributed to the development of the company's first internal AI agent (Azure OpenAI), including CI/CD setup, retrieval optimization, frontend refinement, and role-based access control
- Conducted and co-delivered workshops for enterprise clients and at the Hertie School of Governance on AI fundamentals, GenAI use cases, and practical implementation strategies

Société Générale Corporate and Investment Bank, London, UK
Trainee in the Digital Office

11/22 – 08/23

- Developed Solutions for front-office and risk stakeholders within the internal digital consultancy
- Redesigned and digitised branch-wide interview process, reducing time to hire and increasing traceability; used for 80+ hiring processes by time of leaving
- Built reputational risk review tool and contributed to analytics application for sales and trading

EDUCATION

Imperial College London, UK

09/18 – 07/22

- Master in Science in Physics, First Class Honours, Average Grade 73%
- Courses on: Entrepreneurship (74%), Information Theory (88%), Atmospheric Physics (80%)
- Master thesis on computational network science, Grade 85%

University of Padua, Italy

09/20 – 07/21

- Thesis research at the Collaborative Laboratory of Interdisciplinary Physics (LIPh)
- Courses taught in Italian, Average Grade of 82%

Malvern College, UK

09/15 – 06/18

- International Baccalaureate 41 points (Abitur Equivalent 1,1), Higher Levels: Physics, Chemistry, Maths
- Individual winner of the Physics and Theory of Knowledge Prizes, member of the school council

Primary and Secondary Education, Germany

2006 – 2015

- Local Schools, Participation in Finals of National Science Olympiad and selective EU Awareness Program

OTHER SKILLS AND EXPERIENCES

Certifications: AWS Cloud Practitioner, Apache Spark Developer Associate

Programming: Python (PyTorch, PySpark, NetworkX), SQL, C++, TypeScript

Cloud & Data: AWS, Azure, Databricks, Spark

Infrastructure & DevOps: Terraform, CloudFormation, CI/CD (GitHub, GitLab, Bitbucket)

Web & APIs: REST APIs, HTML/CSS/JS

Languages: German (native), English (fluent), Italian (intermediate)

Volunteering: Cancer Research UK (09/22 – 10/22), Chair of Imperial College Handball Club (08/19 – 07/20)

Other Work Experience: Summer job in a Biergarten, Internship with special gas processing manufacturer

Personal Interests: Politics, Economics, Cooking, Sports (Running, Cycling, Volleyball, ...)