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# Lukas Voss

## Personal Statement

With extensive experience in collaborating with international teams on strategic and quantitative projects across Europe and Asia, I combine a unique blend of training in both economics and physics. I excel in translating complex technical and market analyses into actionable strategies, demonstrating my ability to navigate challenging business environments and deliver results. Eager to leverage my cross-disciplinary expertise in consulting, I aim to drive value for clients and help them achieve their long-term objectives.

## Experience

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| 10/23 – 09/24 | **Centre for Quantum Technologies** *National University of Singapore & Yale-NUS College* – Thesis Researcher <br> • Improving noise resilience of operations in quantum computers with AI techniques (Reinforcement Learning) |
| 06/22 – 08/22 | **BlackRock** *Portfolio Analytics Group, Budapest, Hungary* – Summer Analyst <br> • Developed risk dashboard to automatically flag data inconsistencies between firm-wide and client databases across portfolios, using Python & SQL for data validation and integrated solution into a nightly update routine <br> • Built an evaluation pipeline to validate a new multi-asset multi-factor financial model by comparing its outputs to a previous model, enhancing data collection efficiency by 60% through infrastructure improvements |
| 03/22 – 06/22 | **Roland Berger** *Restructuring, Performance, Transformation & Transaction, Munich, Germany* – Graduate Intern <br> • Communicated with executive board and managed the data room for distressed sell-side mandate in the chemicals sector, prepared 12 investor proposals and analysed deal structures for a €100m+ transaction <br> • Conducted competitor analysis and interviewed 3 industry experts in a buy-side Commercial Due Diligence project, evaluating market trends and competitive positioning for a software company acquisition |
| 10/21 – 12/21 | **KPMG** *Financial Risk & Treasury, Munich, Germany* – Intern <br> • Developed a treasury dashboard in PowerBI, integrating Python-based web scraping and Google News API to analyze real-time market data, including sentiment analysis (NLP) of news articles on 15 counterparties <br> • Presented project results to entire German Treasury practice (>60 FTE, including partners) in a nationwide call and gave a live demo to 2 clients, driving interest in advanced data-driven risk management solutions |

## Education (GPA out of 4.0)

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| 09/24 – 01/25 | **Chinese Language Scholar** *Shanghai Jiao Tong University, Shanghai, People's Republic of China* <br> • Full-time semester program for Chinese language and culture; Personal Goal: Achieve HSK 5 (equiv. B2-C1) |
| 09/22 – 06/23 | **Exchange Year** *National Taiwan University, Taipei, Republic of China* – (GPA: 4.0) <br> • Focus: Quantum Computing, High-Performance Computing, Artificial Intelligence, Chinese Language |
| 04/21 – 09/24 | **MSc Physics and Management & MSc Physics (Double Degree)** *Ulm University, Ulm, Germany* – (current GPA: 3.9) <br> • Focus: Quantum Computing, Financial Modeling, Business Analytics (projects in R & Python) |
| 10/17 – 03/21 | **BSc Physics and Management** *Ulm University, Ulm, Germany* <br> • Focus: Statistical Mechanics, Business Analytics; Thesis on NV Centre dynamics (Matlab; grade: 3.7) |

## Technical Projects

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| 01/24 – 06/24 | **Multivariate Bicycle Codes** *Research Project with A\*STAR Singapore & TII Abu Dhabi* – Link to publication <br> • Introduced new class of Quantum Error Correction codes improving encoding efficiency (Python – OOP) |
| 02/23 – 06/23 | **Study on Deep Learning Training with NVIDIA GPU** *HPC & AI class final project at National Taiwan University* <br> • Benchmark data and model parallelization on a GPU against CPU-based approaches (Python, CUDA) |

## Leadership & Achievements

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| 12/23 – 09/24 | **Organizer** *Singapore Quantum Technologies Meetup Group* <br> • Organizing regular sessions for quantum enthusiasts hosting speakers from industry & academia |
| 09/22 – 06/23 | **Baden-Württemberg Scholar & Regional Lead Taiwan** *Baden-Württemberg Foundation* <br> • Responsible for organizing network and cultural activities among scholarship holders in Taiwan <br> • Raised >15,000 EUR funding for my academic stays in Singapore and Taiwan |
| 08/21 – today | **President** *German Entrepreneur Prize for Students Alumni Association* <br> • Leading a team of four, overseeing the budget, planning networking and career development events |
| 06/16 | **2nd in Nationwide Business Plan Competition** *German Entrepreneur Prize for Students* |

## Skills & Interests

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| Languages | German (native), English (full working proficiency), Mandarin Chinese (est. HSK 4, equiv. B1-2), French (est. B1) |
| Coding | Python (proficient); R, Matlab (intermediate); SQL, Bash, Git (basic) |
| Technologies | MS Office suite, LaTeX, Cloud Computing (AWS, Google Cloud), HPC Clusters |
| Interests | Swimming, tennis, cooking haute-cuisine, language tandems |