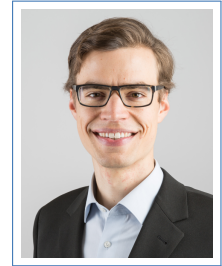


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Experience

Jan. 24 – Dec. 25 **Software Engineer, Freelancer**, Investment Management.

Key Achievements

- Developed an web app for interactive yield curve modeling and visualization, streamlining daily QA and ad-hoc analysis.
- Implemented a process scheduling and orchestration solution, built CI/CD pipelines, enhancing deployment and infrastructure reliability.

Business Domain

- Quantitative yield curve modeling for bond portfolio valuation.

Technologies

- Python, Panel, Jenkins, Airflow, Pandas, Bokeh, QuantLib, C++, Oracle

Jan. 23 – Dec. 23 **Software Engineer, Freelancer**, Energy Trading.

Key Achievements

- Refactored and migrated energy forecasting systems to the cloud, improving availability and scalability while reducing operational overhead.
- Developed connector libraries and API interfaces for seamless trading data integration, simplifying efficient data access and utilization.

Business Domain

- Quantitative forecasting of renewable energy production for energy trading operations.

Technologies

- Python, Pandas, FastAPI, AWS, Snowflake, PostgreSQL

Jul. 21 – Dec. 22 **Software Engineer, Freelancer**, Investment Management.

Key Achievements

- Built web APIs for quantitative finance applications, facilitating the migration to cloud infrastructure.
- Modernized legacy codebases, implemented test automation, and created comprehensive API documentation.

Business Domain

- Quantitative valuation of derivatives and bonds, including climate stress testing for portfolio risk assessment.

Technologies

- Python, C++, FastAPI, Flask, Azure, Oracle, QuantLib

- Oct. 18 – Jun. 21 **Business Intelligence Architect**, *RSU GmbH & Co. KG*, Munich.
- Key Achievements*
- Implemented a process scheduling solution to orchestrate and monitor end-to-end market data flows from vendors to clients.
 - Conducted large-scale data migrations from a legacy market data system to a new platform, ensuring a smooth system transition.
 - Performed data analysis, visualization, and automation projects, delivering operational insights.
- Business Domain*
- Launch of a comprehensive market data system for multiple asset managers, ensuring data quality and availability.
- Technologies*
- Python, Pandas, Dash, JobScheduler, Oracle, SQL Server, PostgreSQL
- Aug. 15 – Sep. 18 **Financial Engineer**, *IDS GmbH - Analysis and Reporting Services*, Munich.
- Key Achievements*
- Developed and optimized quantitative models for derivatives pricing, including exotic options.
 - Automated counterparty risk analytics, significantly reducing manual intervention and errors.
- Business Domain*
- Derivatives pricing, counterparty credit risk, and collateral management.
- Technologies*
- C++, QuantLib, Oracle, PL/SQL, Python
- Mar. 13 – Jul. 15 **Data Warehouse Developer**, *IDS GmbH - Analysis and Reporting Services*, Munich.
- Key Achievements*
- Developed data warehouse solutions for investment fund performance and risk reporting.
 - Integrated diverse data sources and automated quality assurance, improving reporting accuracy.
- Business Domain*
- Factsheet reporting for investment funds.
- Technologies*
- Oracle, PL/SQL, Informatica Powercenter

Skills

Programming	Python, C++, PL/SQL, SQL
Analytics	Pandas, NumPy, Pydantic, Bokeh, Plotly, QuantLib
Web	FastAPI, Flask, Panel, Dash, OpenAPI
Databases	Oracle, PostgreSQL, Microsoft SQL Server, Snowflake
Tools & DevOps	Jenkins, Airflow, AWS, Git, pytest, Grafana, Datadog, Splunk, systemd
Software Engineering	Clean Coding, Design Patterns, Requirements Engineering, System Analysis

Academics

- Oct. 07 – Jan. 13 Mechanical Engineering, *Technical University of Munich*.
- Diplom-Ingenieur, average grade: 1.6
 - Thesis: Analysis of speed profiles from fleet tests using data transformation and statistical techniques

Languages

German Native speaker
English Excellent command