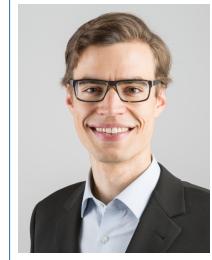


# Jan Schüler

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## Experience

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

### *Key Achievements*

- Developed a 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	<b>Business Intelligence Architect, RSU GmbH &amp; Co. KG, Munich.</b>
<i>Key Achievements</i>	
<ul style="list-style-type: none"> <li>○ Implemented a process scheduling solution to orchestrate and monitor end-to-end market data flows from vendors to clients.</li> <li>○ Conducted large-scale data migrations from a legacy market data system to a new platform, ensuring a smooth system transition.</li> <li>○ Performed data analysis, visualization, and automation projects, delivering operational insights.</li> </ul>	
<i>Business Domain</i>	
<ul style="list-style-type: none"> <li>○ Launch of a comprehensive market data system for multiple asset managers, ensuring data quality and availability.</li> </ul>	
<i>Technologies</i>	
<ul style="list-style-type: none"> <li>○ Python, Pandas, Dash, JobScheduler, Oracle, SQL Server, PostgreSQL</li> </ul>	
Aug. 15 – Sep. 18	<b>Financial Engineer, IDS GmbH - Analysis and Reporting Services, Munich.</b>
<i>Key Achievements</i>	
<ul style="list-style-type: none"> <li>○ Developed and optimized quantitative models for derivatives pricing, including exotic options.</li> <li>○ Automated counterparty risk analytics, significantly reducing manual intervention and errors.</li> </ul>	
<i>Business Domain</i>	
<ul style="list-style-type: none"> <li>○ Derivatives pricing, counterparty credit risk, and collateral management.</li> </ul>	
<i>Technologies</i>	
<ul style="list-style-type: none"> <li>○ C++, QuantLib, Oracle, PL/SQL, Python</li> </ul>	
Mar. 13 – Jul. 15	<b>Data Warehouse Developer, IDS GmbH - Analysis and Reporting Services, Munich.</b>
<i>Key Achievements</i>	
<ul style="list-style-type: none"> <li>○ Developed data warehouse solutions for investment fund performance and risk reporting.</li> <li>○ Integrated diverse data sources and automated quality assurance, improving reporting accuracy.</li> </ul>	
<i>Business Domain</i>	
<ul style="list-style-type: none"> <li>○ Factsheet reporting for investment funds.</li> </ul>	
<i>Technologies</i>	
<ul style="list-style-type: none"> <li>○ Oracle, PL/SQL, Informatica Powercenter</li> </ul>	

## 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