Jan Schüler

Gebsattelstr. 14
81541 München
+49 176 565 112 32
jan.schueler@data-consulting.eu
www.data-consulting.eu
jan-schueler

Experience

Jan. 24 – present **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.
- Automated testing frameworks and built CI/CD pipelines, enhancing deployment and infrastructure reliability.

Business Domain

- Quantitative yield curve modeling for bond portfolio valuation.

Technologies

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

Certifications

Jan. 17 *Oracle Certified Professional - Advanced PL/SQL Developer*

Dec. 14 *Informatica Certified Professional - PowerCenter Data Integration Developer*

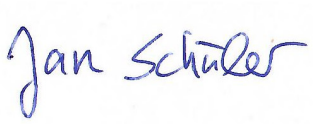
Academics

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



Munich, September 29, 2024