

JAN PHILIPP SCHÜLER

Software Engineer | Freelancer | Financial & Energy Markets

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EXPERIENCE

Parental Leave

Jan 2026 – present

Software Engineer (Freelancer)

Fixed Income Analytics

Jan 2024 – Dec 2025

- Built an interactive web application for yield curve modeling and visualization for bond portfolio valuation, streamlining daily QA and ad-hoc analysis.
- Implemented job-scheduling and orchestration, and built CI/CD pipelines, improving deployment speed and infrastructure reliability.
- Technologies:** Python, Airflow, Jenkins, Oracle, QuantLib, HoloViz Panel

Energy Trading

Jan 2023 – Dec 2023

- Refactored and cloud-migrated a direct-marketing platform for renewable energy forecasting, improving maintainability and forecasting accuracy.
- Built connector libraries and REST APIs for trading data integration, enabling consistent access to market and forecast data.
- Technologies:** Python, AWS, Snowflake, dbt, PostgreSQL, FastAPI

Derivatives Valuation

Jul 2021 – Dec 2022

- Developed web APIs for derivatives and bond valuation and market risk stress testing, as part of a cloud migration.
- Modernized legacy C++ codebases, improved testability, and developed ORM components.
- Technologies:** Python, C++, FastAPI, Azure, Oracle, QuantLib, pybind11

Business Intelligence Architect

RSU GmbH & Co. KG

Oct 2018 – Jun 2021

- Implemented a process scheduling solution to orchestrate and monitor end-to-end market data flows from data vendors to clients.
- Conducted large-scale data migrations from a legacy market data system to a new platform, ensuring a smooth system transition.
- Technologies:** Python, Oracle, SQL Server, Plotly Dash, JS7 JobScheduler

Financial Engineer

IDS GmbH - Analysis and Reporting Services

Aug 2015 – Sep 2018

- Developed quantitative models for derivatives and bond pricing, including exotic options like lookback or cliquet options.
- Automated a system for managing OTC counterparty risk and collateral management, including CVA, PFE, and PCR reporting.
- Technologies:** C++, Python, Oracle, PL/SQL, QuantLib

Data Engineer

IDS GmbH - Analysis and Reporting Services

Mar 2013 – Jul 2015

- Developed data warehouse solutions for investment fund factsheet, performance, and risk reporting.
- Technologies:** Oracle, PL/SQL, Informatica Powercenter

ABOUT ME

Software Engineer with 12 years of experience across investment management, market data, and energy trading.

Technical expertise ranging from data pipelines and orchestration via web applications and APIs to pricing and risk models, mostly in Python, C++, and Oracle.

SKILLS

Programming

Python, C++

Databases

Oracle, SQL Server, PostgreSQL, Snowflake, dbt, PL/SQL, SQL

Web Frameworks

FastAPI, Flask, Plotly Dash, HoloViz Panel

DevOps

Airflow, AWS, GitHub Actions, Jenkins, Docker

Code Quality

uv, ruff, mypy, pre-commit, pytest

Quantitative Finance

QuantLib

Software Engineering

Clean Coding, Design Patterns, Requirements Engineering

Certifications

Oracle Certified Professional
Advanced PL/SQL Developer

Languages

German native

English fluent

EDUCATION

Mechanical Engineering
(Diplom-Ingenieur)

Technical University of Munich

Oct 2007 – Jan 2013

Final grade: 1.6