



JONAS 瑞龙 KUPFERSCHMID

Quantitative finance, data science, and engineering

Email

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Public contact email (not my primary inbox)

Experience

Ruckstuhl Gruppe AG —Core Developer (contract)

Jul 2023 – Present | Switzerland

- Automated 10+ checklist-driven HR Word templates from ERP-fed Excel data; ~70% faster turnaround, saving 10+ hours/month while eliminating human error.
- Microsoft Graph API for cloud folder structures and permissions; standardized access controls for those workflows.

Family Business —Management Trainee

Oct 2023 – Dec 2025 | China

Primetime Group (盛时集团) —Internal Audit & Strategic Projects

- Conducted pre-merger financial and regulatory due diligence on a China-listed candidate for a reverse merger.
- Monthly internal audits spanning 300+ retail locations (cash flow, inventory, compliance); Python auto-reconciliation cut reporting preparation by ~3 days per month.

XY Watches —Investor Analysis & Board Advisory

- Buyout feasibility and consolidation for a 40+ entity group (100M+ RMB annual revenue); identified cash-flow and governance risks for deal structure and valuation.
- Consolidated financial/organizational assessment; presented to board-level stakeholders.

The Sundial (private club) —Business Development

- Analyzed and optimized the club business model; introduced ERP-linked operational reporting and early membership/pricing strategy.

Swiss Armed Forces —Grenadier (Special Forces), Command Unit

Jul – Dec 2019 | Switzerland

- Mission planning and coordination of small-team operations under pressure.
- Live-fire, helicopter, and mountain training; sustained field operations with heavy loads.

Selected earlier roles (selected)

- ANTRIMON Group AG (2017–2018): CS & production—repairs, assembly, field service.
- Oskar Frech (Shanghai), Jul–Aug 2015: die-casting production support.
- Farmy AG, Feb–Mar 2018: product & sales—DTC evaluation, SEO, local outreach.

About Me

ETH B.Sc. in electrical engineering with strong training in analysis, linear algebra, probability, statistics, and numerical methods, complemented by graduate coursework in *financial engineering*, *financial economics*, and *Quantitative Portfolio Management*. Pursuing an M.Sc. in data science (expected 2026–2028) with a Finance minor, with long-term focus on quantitative research, financial market modeling, and data-driven engineering. Hands-on Python in analytics and financial workflows, with competition experience from IMC Prosperity and Datathon 2026.

Skills

Programming & Data Analysis

Python, SQL, MATLAB, R, C/C++, HDL (SystemVerilog), Vivado, Neo4j, LaTeX

Machine Learning & AI

Predictive modeling, LLMs, data-driven analytics; probability, statistics, linear algebra, and stochastic methods from ETH coursework

Finance & Business Analysis

Financial modeling, valuation, corporate finance, due diligence, KPI analysis, market sizing, Excel (VBA), PowerPoint

Web & IT Development

HTML, CSS, JavaScript, Ubuntu server management, web hosting, VPN configuration

Design & Visualization

Photoshop, Illustrator, Premiere Pro, Audition

Enterprise Tools

SAP, Odoo, Microsoft Graph API

languages

English (Fluent)

Chinese (Native)

German (Native)

French (Intermediate; DELF B2)

Awards

High Voltage Laboratory, ETH Zürich — Special Award for Outstanding Motor Design

Chemistry Olympiad 2019 & 2018 — Silver, Final Round (Switzerland)

Math Kangaroo Contest — 7th place, Kantonsschule Wettingen

Education

Application target: ETH Zürich — M.Sc. Data Science (2026–2028, expected), with Finance minor

ETH Zürich — Master's-level electives Graduate modules taken in parallel with full-time work; elective study separate from the B.Sc. Completed or in progress as listed.

- *AI, ML & data:* Computer Vision; Probabilistic AI; Big Data; LLMs; Large-Scale AI; Programming with Data.
- *Finance & economics:* Financial Engineering; Financial Economics; Quantitative Portfolio Management.
- *Business & digital:* Management in Digital Transformation.

ETH Zürich — B.Sc. Electrical Engineering & Information Technology (2020–2023)

Strong quantitative foundation: analysis, linear algebra, probability & statistics, numerical methods.

Solid systems & computing background: embedded systems, circuit design, signals & systems, VLSI/FPGA design, technical informatics.

Applied machine learning & engineering projects.

Kantonsschule Wettingen — Swiss Matura & International Baccalaureate (2015–2019)

Double degree, major: Economics and Law.

Earlier education: German School Shanghai Pudong (2012–2015); Shanghai Ping He Bilingual School (2006–2012).

Early bilingual and international education (Chinese–English–German), fostering adaptability and cross-cultural communication.

Projects & Personal Ventures

Datathon 2026 (ETH Zurich): Participated in the Challenge by Hudson River Trading, where we used machine learning for news-sentiment analysis and price prediction, achieving a final Sharpe ratio of 2.55.

IMC Prosperity: Team algorithmic trading project on simulated markets (signal design, strategy iteration, and risk-aware evaluation under changing regimes). Current ranking in the top 150 for the algorithmic track out of 22k teams.

Automation & Analytics Tools: Python reconciliation pipelines matching bank statements to SAP journals; interactive geospatial KPI dashboard for retail locations; QR-code inventory scanning workflow for cleaner operational data capture.

Web & Server Projects: Self-hosted Ubuntu web stack with interactive map overlays and analytics instrumentation; personal VPN setup for secure remote administration.

Cryptocurrency Trading (2016–2019): Explored market microstructure and arbitrage opportunities; practical exposure to liquidity, leverage, and risk during volatile regimes.