Joshua Spingler

Curriculum Vitae

+49 40 696328495
✉ joshuaspingler.qbk99@8alias.com
in joshuaspingler
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Education

Since 2023 **Goethe University, B.Sc. Computer Science Minor Mathematics**

All Mathematics lectures scheduled for the Computer Science degree are replaced by lectures of the B.Sc. Mathematics program. Planned specialization: Algorithms and Data Structures

2019-2023 **University of Leipzig, B.Sc. Economics and Management Science**

Bachelor Thesis: "Information dissemination and the influence of social media on the stock markets"

Experience

since 2025 **Deutsche Börse AG**

Working student - Software Development for the System Control and Market Supervision teams, developing applications such as data validation tools and dashboards using Java, Python, Scala, SQL, and JavaScript, leveraging technologies such as Spark.

2021-2025 **European Energy Exchange AG**

Working student - Development of various tools in Python to support the Accounting Team and design of a company-wide solution for the approval of intercompany invoices. Assumption of responsibility for the creation of monthly financial statements and annual financial statements for operating sites in the UK, Italy and Spain.

2019 **Ebner Stolz Wirtschaftsprüfer Steuerberater Rechtsanwälte Partnerschaft mbB**

Internship in Financial Audit. Support with annual financial statements and audit of consolidated financial statements

2019 **Porsche Cars Australia Pty Ltd**

Intern in the product marketing team at the headquarters in Melbourne. Research for competitive and market development analysis. Support with market reporting for the Australian market. Support in the development of marketing materials.

2016 **Student Exchange (China) Zhejiang Ivy International Academy**

Attended two weeks of lessons at the boarding school "Zhejiang Ivy International Academy, Hangzhou". Communication was in English.

Personal Projects

backt4j A backtesting framework for trading strategies written in Java.

a-scheduler Single file C++ library for multithreaded job scheduling.

pairs-trading-system Automatic Pairs-Trading System for stocks with cointegrated share prices as CLI application connected to the Trader Work Station (TWS) of Interaktive Brokers written in Python.

equity-explorer Dashboard for visualization of fundamental financial data from Polygon.io in Python.

Volunteering

2016-2019 **Kreisjugendwerk der AWO Karlsruhe**

Youth leader of various summer camps for children.

Interests

Programming, Algorithms and Data Structures, Low latency applications, Networking, Operating Systems, Linux, FPGAs, Mathematics, Financial Markets and Economics.