
KONSTANTIN GRIGOROV

City Island, London, United Kingdom | (+44) 7447 909356 | k.l.grigorov@gmail.com | www:
<https://kolygri.github.io/> | <https://www.linkedin.com/in/kolygri/>

Summary

Product-minded senior software engineer who embeds directly with front-office and desk users, turns ambiguous problems into well-scoped tools, and ships Python data pipelines, Excel/GenAI add-ins and agentic workflows that make investment and trading professionals measurably more effective. Nine years across trading and investment platforms (Shell Trading, Trading 212, J.P. Morgan), pairing hands-on delivery with a tight build-measure-iterate loop driven by real user feedback. Early adopter of agentic, AI-assisted engineering (Copilot/Codex, MCP servers, evals) with strong ownership and end-to-end accountability.

Skills

- | | |
|--|--|
| ▶ Embedded delivery & stakeholder translation | ▶ Agentic AI & MCP workflows (Copilot/Codex) |
| ▶ Product-engineer mindset (tools as products) | ▶ Data pipelines & lakehouse (Polars/PySpark) |
| ▶ Python data tools, automation & analytics | ▶ Front-office & trading-systems collaboration |
| ▶ Excel & financial tooling / GenAI add-ins | ▶ Requirements discovery & commercial instinct |
| ▶ Rapid prototyping & user-feedback loops | ▶ End-to-end ownership & reliable follow-through |
-

Experience

Principal Data & AI Engineer

06/2022 to Current

Shell Trading & Supply

London, UK

Embedded with trading desks and front-office stakeholders, building user-facing tools and data products and iterating them directly from user feedback.

- ▶ Built one of Shell's first Excel-ChatGPT integrations - an end-to-end AI tool demoed to GMs, VPs and SVPs at the T&S Global Conference - putting GenAI inside users' existing Excel workflow.
- ▶ Delivered Shell Trading's highest-throughput ingestion pipeline (10M+ rows) in Polars and Azure Durable Functions, powering self-service data for desk users.
- ▶ Architected the first cross-desk data catalogue platform (natural gas, crude, middle distillates), making multi-asset data discoverable and reusable across teams.
- ▶ Ran a global GenAI hackathon (50+ participants, 3 continents), turning real user pain points into award-winning, shippable prototypes.
- ▶ Set shared standards and reusable patterns across a 16-engineer data community, keeping tools architecturally coherent and reusable.

Senior Software Engineer

04/2021 to 04/2022

Trading 212

London, UK (Hybrid)

Embedded with front-office trading to improve pricing accuracy, automate risk workflows and harden high-volume systems.

- ▶ Engineered a pricing-platform revamp enabling more competitive quotes and faster market-data processing.
- ▶ Designed a Python-based algorithmic trading engine automating equity position management across 17k+ instruments.
- ▶ Improved authentication systems supporting 40k+ daily active users, increasing platform reliability.
- ▶ Delivered extensible market-data and reporting frameworks leveraging Interactive Brokers APIs.

Sr. Associate Cloud Native Software Engineer

01/2020 to 04/2021

J.P. Morgan

London, UK

Built automation and modernised critical financial infrastructure across cloud-native and trading platforms.

- ▶ Built an enterprise automation library enabling secure Terraform module updates across global engineering teams.
- ▶ Developed a Kubernetes operator enabling consistent orchestration of platform-critical schedulers.
- ▶ Migrated key risk and trading workloads to AWS using IaC and Kubernetes.
- ▶ Contributed to JPM's flagship Athena trading platform.

Software Engineer, Algorithms

01/2018 to 12/2019

Playtech

London, UK

- ▶ Built FastAPI microservices aligned with enterprise CI/CD initiatives.
- ▶ Improved sports-analytics pricing models, including a 20% performance increase for core baseball algorithms.
- ▶ Modernised internal Kubernetes deployments and automated system-reliability workflows.

Full-Stack Developer, Lottery

07/2017 to 01/2018

Playtech

London, UK

- ▶ Built automated barcode-detection tooling using Python + OpenCV.
- ▶ Delivered messaging and reporting features across React and Oracle-based systems.

Education and Training

MEng Computer Science

09/2011 to 07/2016

The University of Manchester

Manchester, UK

Grade: High 2.1

National High School of Mathematics and Physics

2007 to 2011

Diploma of Secondary Education (A-Level equivalent)

Bulgaria

Physics & Mathematics. **Grade:** Excellent 5.92 / 6.00

Reached the national qualifying round of the International Physics Olympiad (IPhO); active in national Physics, Mathematics and English competitions and school sports teams.

Technologies and Architecture

Python, Go, SQL, TypeScript/React, Polars, PySpark, Databricks, Azure, AWS, GCP, Kubernetes, Docker, FastAPI, Excel/Office tooling, MLflow, Airflow, Terraform, CI/CD, Power BI, GenAI (Agents/Evals/MCP), LangChain, Vector Databases, Copilot/Codex, Distributed Systems.

Selected Tools & Impact

- ▶ ChartMindAI & FieldCert: rapidly built interactive product prototypes (VAT/MTD reconciliation; voice-led field certification) as end-to-end, user-tested tools.
- ▶ Agentic tooling: MCP servers, orchestrated sub-agents and eval harnesses that speed delivery and keep solutions reusable and coherent.
- ▶ Consistently translate ambiguous, non-technical requests from desk and business users into scoped, shipped software.

Awards & Recognition

- ▶ Shell Significant Contribution Award - AI Innovation & Delivery.
- ▶ Global GenAI Hackathon leadership awards (multiple).
- ▶ Recognition for cross-desk data platform delivery adopted across trading teams.