

TOMAS TRAN

Software Engineer

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Prague

EXPERIENCE

Software Engineer

Deutsche Börse

2026 – present Prague, Czech Republic

C++ | QuantLib | CMake | Git | Jenkins

- Development of P7 price engine core, setting prices for derivatives on market.
- Implementing and maintaining volatility fitting area and collaborated on simulation state interface.
- End to end implementation of simulated rate curve area and future pricing methods.
- Improve onboarding process by continuous documentation and building knowledge base

Software Engineer

Chaos Czech a.s.

2021 – 2025 Prague, Czech Republic

C++ | Qt | CMake | Git | Conan

- Development of Envision, a 3D visualization application, by delivering features such as Cloud Collaborations, Cosmos assets browser, and an AI image enhancer, making it in compliance with company's other products eco-system.
- Extended and maintained internal framework and libraries.
- Prototyped site context feature, integrating map data with 3D visualizations of surrounding buildings, enabling clients to preview designs in real-world environments.

EDUCATION

Master's Degree in Artificial Intelligence

Faculty of Information Technology CTU

2021 – 2024

Prague

- Art course tutor also responsible for its curriculum.
- Freshmen programming course assistant teacher.
- Organizer of freshmen's orientation week.

Bachelor's Degree in

Theoretical Computer Science

Faculty of Information Technology CTU

2017 – 2021

Prague, Czech Republic

Bachelor's Degree

- Organizer of freshmen's orientation week.

PROJECTS

Toybox library

github.com/tranvanh/trade-mockup

C++ | CMake | GoogleTest | GoogleBenchmark | Git

- A reusable portable library used across various personal projects and prototypes
- Implemented reusable modules (e.g., logging, concurrency components such as lock free queue, networking utilities), focusing on performance, modularity, and API design.

Order matching engine

github.com/tranvanh/trade-mockup

C++ | CMake | GoogleTest | GoogleBenchmark | Git

- Built a client-server system simulating a stock exchange with an order book and order matching algorithm.
- Implemented multithreaded order generation, trade execution, ensuring thread safety and reliability.

Real-time gesture detector

github.com/tranvanh/Gesture-classification

C++ | Python | Keras | UltraLeap | Git

- Bidirectional LSTM based model deployed in real-time environment.
- Additional dataset sampling tool with simple heuristics for best quality samples.

TECHNICAL SKILLS

C++ C++17/20, CMake, Qt, Multithreading
Python Keras, Pytorch, Pandas
Machine learning
Algorithms

LANGUAGES

Czech Native speaker
Vietnamese Native speaker
English Fluent

NON PROFIT

Volunteer

People in Need

2024 – present

- Mentorship service and career advisor for children from socially disadvantaged backgrounds.