# Piotr Rybiec

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## EXPERIENCE

**Co-founder** — August 2022 – Present
*QuasiPhi Project* — *Warsaw, Poland*
- Co-founded and developed a machine learning startup that focuses on analysing time series data for patterns.
- Created efficient micro-service solution for fetching and storing time-series financial data from various exchanges in Go, PostgreSQL and TimescaleDB.
- Implemented proprietary algorithms that were a major distinguishing factor of the product, while experimenting on Transformer architecture.

**Java Summer Intern** — July 2024 – September 2024
*eService Sp. z o.o.* — *Warsaw, Poland*
- Developed internal data-intensive REST APIs and data pipelines utilizing Java 17, Hibernate, Spring Framework and it's derviatives.
- Designed and developed full-stack applications in Node.js, React.js and Tailwind CSS.
- Assesed and troubleshot issues arising from the diversity of many different coding environments.

**Full-stack Software Engineer** — June 2023 – August 2023
*Dopamine&Co* — *Warsaw, Poland*
- Developed a MVP for a full-stack web application, focusing on addressing fundamental user needs and providing sufficient market validation.
- Optimized the application for scalability and applied authentication and authorization mechanisms.
- Implemented a REST API in Django and used React.js for the frontend.

## PROJECTS

**Go Chess Engine** — January 2025
- Implemented a chess engine based on minimax alpha-beta pruning search algorithm.
- Created a frontend allowing user to play with the computer in a comfortable way.

**RERE** — September 2021 – May 2022
*Bednarska Real Highschool* — *Warsaw, Poland*
- Led the developement of a master-slave infrastructure for a distributed system of hardware radio stations communicating with a mother station.
- Implemented Arduino and Adafruit Feather controllers communicating with a Raspberry Pi via radio-serial pipeline.
- Optimized the data flow for transparent and efficient communication for over 20 stations.
- Implemented a Python middleware for data processing and database communication.
- Created a online dashboard allowing for real-time monitoring of every station.

**Voluntary work** — 2022 – 2023
*Marek Kaminski Foundation* — *Poland*
- Took an active part in an initiative called 'Marsze Mocy', dedicated to raising awareness about the importance of mental health across the youth.
- As a team, raised over 400,000 PLN to found a preventive-motivational LifePlan Academy courses.

## EDUCATION

**Polish-Japanese Academy of Information Technology** — Warsaw, Poland
*Bachelor of Science in Computer Science* — *2024 – 2027*

**Bednarska Real High School** — Warsaw, Poland
*Computer Science Specialized Track, Mathematics and Physics Major* — *2020 – 2024*

## TECHNICAL SKILLS

**Languages**: Java, Python, Go, JavaScript, SQL, C, C++, Bash
**Frameworks**: Spring, Hibernate, Django, React.js, Node.js, PyTorch, TensorFlow, MLX, Tailwind CSS
**Tools**: Git, Linux, Docker, GCP, debuggers and decompilers
**Libraries**: NumPy, Pandas, Matplotlib, Seaborn