

KARLO VRANCIC

Age: 22 · kvrancic11@gmail.com · [linkedin.com/in/karlovrancic](https://www.linkedin.com/in/karlovrancic) · github.com/kvrancic

EDUCATION

Massachusetts Institute of Technology (MIT)

Cross-registered student: *Deep Learning, AI Agents*

Cambridge, MA

Sep 2025 - May 2027

Harvard University, Graduate School of Arts and Sciences

MS Data Science (on full scholarship); *MLOps, Linear Models*

Cambridge, MA

Sep 2025 - May 2027

École Polytechnique Fédérale de Lausanne (EPFL)

Exchange MS Computer Science, Grade: 5.7/6

Lausanne, CH

2024 - 2025

- Ranked **2nd out of 700+ students** in Applied Data Analysis course, project inducted in the Hall of Fame
- Public Vote Winner of the EPFL Future Leaders' Changemakers Program

University of Zagreb, Faculty of Electrical Engineering and Computing (FER)

BS Computer Science

Zagreb, HR

2021 - 2024

- Only student in the university history** to win the Chancellor's Award (the university's highest honor) in three categories in a single year: *individual research, group research, outstanding community contribution*
- Organized and held the most watched *lecture* in the university's history

EXPERIENCE

CERN Machine Learning Intern | [Final Report](#) | [Demo](#)

Jun 2025 - Sep 2025

- Made a two-stage ML pipeline to identify and classify predatory publishing operations within Zenodo
- Resulted in breakdown of a **multi-million dollar predatory market**. Achieved **93.8% precision** in identifying **260,000+** fraudulent publications

TeeWiz Co-founder & CEO | [Webpage](#)

Jun 2025 - Present

- Achieved a 70% user-to-customer conversion rate in beta testing, currently in the ZICER startup accelerator

Prozoor Co-founder

Nov 2024 - Present

- Creating custom full-stack solutions for clients including the **City of Zagreb** and pharmaceutical firms

Visor Software Engineering Intern

Jul 2024 - Sep 2024

- Independently designed and developed a real-time faulty product monitoring app, sold to multiple clients

ORGANIZATIONS & VOLUNTEERING

EESTEC LC Zagreb Board member and PR team coordinator

Jun 2023 - Present

- Student org behind Algotrade, Europe's largest algo trading hackathon, backed by Jane Street, IMC, Jump etc.
- Scaled the organization 12x (from 25 to 300+ members) and led the core 100-person team.

Finance Club Algorithmic Market Analysis team member

Sep 2024 - Jun 2025

PROJECTS

Mid-Price Movement in Limit Order Books *Risk Analytics and Optimization Lab @EPFL* [Paper](#) - *WIP*

Graph Neural Network for mid-price movement prediction **outperforming baseline architectures** like DeepLOB.

Algorithmic Trading Bot [Github](#)

Integrating AI model ensemble (CNN, LSTM, XGBoost), Reddit/news sentiment analysis, and execution strategies (TWAP, VWAP). Features portfolio optimization, multi-layer risk management, and full Alpaca API integration.

Wikispeedia: The Grandmaster's Path [Github](#) | [Project Page](#) | [Poster](#)

Chess-like ecosystem in the Wikispeedia game developed using machine learning, semantic analysis, LLMs, and graph algorithms to create framework for dynamic analysis and ELO scoring. **Inducted in EPFL Projects Hall of Fame.**

ErasmusConnect [News article](#) | [Podcast](#)

Platform approved and supported by 40+ Erasmus organizations. **Won the biggest student app development competition** in Croatia and neighbouring countries.

MedBay [Github](#) | [Presentation](#)

Led a 7-member team on a AI-powered hospital rehabilitation management project. Chancellor's award winner.

SKILLS

Tech: Python (pandas, NumPy, PyTorch), C/C++, R, Go, JavaScript, Java, SQL, Linux, Git, Docker

Hobbies: Basketball (ex national team player), Trivia Writing, Graphic Design, Photography