

EDUCATION

ETH Zurich 2022-2024
MSc Data Science

University of Ljubljana, Faculty of Mathematics and Physics 2019-2022
BSc Physics Student

- Average grade: 9.13/10
- Dean's award for top 5% student of generation (2019-2020)
- Mathematics (Analysis 1 and 2) tutor; honorary position for top-performing students
- CS class project: Neural Network from scratch; I wrote multi-layer NN using only Numpy
- Bachelor thesis: GANs in particle physics under the supervision of Prof. Borut Paul Kerševan

Bežigrad High School 2015-2019
Secondary school graduate Ljubljana, Slovenia

RESEARCH

American Slovenian Education Foundation 2021-2023
Junior Fellow

- Three-year program consists of a research visit to a top American University
- Selected as one of only three undergraduate students out of over 100 students
- ASEF tutorship under the mentorship of Prof. Dr. Sašo Grozdanov; researching the implementations of nuclear fusion, more specifically tokamaks and stability of plasma

University of California, Berkeley 07.2021-present
Student intern under the supervision of Prof. Dawn Song Remote

- Cryptocurrency research
- Researching EVM cross-chain empirical measurements with a focus on miner extractable values
- Worked on E2E visualizations for "Bridge-Scan"; a service that helps detect and analyze bridge transactions; real-time Go with frontend
- Working on a paper on the Security and Performance of cross-chain networks under Volatile Block Reward
- I have found proof and developed the heuristics for exploring cross-chain node manipulation

Jožef Stefan Institute 06.2018-present
Student ML Researcher under the supervision of Prof. Dunja Mladenič Ljubljana, Slovenia

- Machine Learning research; focused on Natural Language Processing with Transformers
- Published a paper in SiKDD2020; researching the best approach to hierarchically classify OERs under the mentorship of Prof. Dunja Mladenič and Erik Novak. Compared TF-IDF to the state-of-the-art pre-trained language model from Transformers (XML-RoBERTa)
- Worked on multiple Videlectures.NET, X5GON, and INFINITECH; EU funded projects
- Winner of Innovation IT Hackaton; organized and hosted by Slovenian Post Office
- Participated in AI for the Common Good F'AI'R Education Hackathon; organized and hosted by British Embassy in Paris
- Participated in X5GON hackathon on Open Education and AI; organized by X5gon, hosted at UCL
- Reciever of JSI excellence scholarship

PUBLICATIONS

Žunič Gregor, Novak Erik. Hierarchical classification of educational resources. *Data Mining and Data Warehouses - SiKDD*, 5 October 2020.

SKILLS

Software Development (only fluent)

- **Backend** - Django, Flask, NodeJS, Elasticsearch, Go, Git
- **Frontend** - Typescript, React, React Native, Nextjs, Redux, Tailwind
- **Web3** - Solidity, Hardhat, Ethers
- **ML** - Scikit-Learn, PyTorch
- **Software** - Mathematica, Jupyter, Latex, Adobe Suite (AI, AE, PS, PP), Final Cut Pro, Figma, Unity

General

- **Language Skills** - Slovene (mother tongue), English (C1 TOEFL: 107), French (A2)
- Guitar enthusiast (8 years primary school), Chess (participated in 2 youth world championships)

INDUSTRY

Idoru.capital 2021-present

Crypto Lead

- Idoru capital is the first crypto asset backed by Private Equity, Venture Capital, Hedge Funds, Asset Management firms, and companies on the brink of an IPO
- Head of crypto implementations

Strader.io 2021-2021

Co-Founder

- DeFi/crypto startup focused on providing personalized trading strategies and fast algorithms that instantly react to events across many blockchains while protecting users from malicious attacks
- Market analyses and statistical research
- Researched and implemented state-of-the-art Web3 solutions
- Worked on the backend services which analyses and filters real-time data of multiple blockchains

Green Button Journey 2020-present

Tech Lead

- EU funded OER platform to support and raise awareness for a greener way of living
- Researched best way to educate young adults to complete reward-based tasks
- Designed and implemented the mobile application published on App Store and Google Play

Videolectures.NET 2019-present

Tech Lead

- Videolectures.NET is a UNESCO award-winning OER repository with 20,000 lectures and 15,000 users; project led by Dr. Mitja Jermol, UNESCO chair
- Envisioned and redesigned the architecture
- Implementing the new Backend and Website and the Mobile App from scratch

X5GON 2018-2020

ML Researcher & Fullstack developer

- EU Horizon2020 project for connecting and analyzing OER resources from multiple repositories; led by Prof. John Shawe-Taylor
- Started by collecting data from OER repositories which were analyzed and used to create a state-of-the-art cross-site recommendation system
- X5GON Blind Backend and Frontend; sub-project focused on enhancing the learning experience of blind and partially blind people by providing a simplified interface and highly personalized recommendation engine
- X5GON Platform website; project's presentation website
- X5GON Discovery website; UI for the state-of-the-art cross-site recommendation engine

OTHER SKILLS

KK Ježica 2018-present

Semi-Professional Basketball Player

Ljubljana, Slovenia

- 5-th best scorer in University Basketball League (season 2019/2020)

Helios Suns

Semi-Professional Basketball Player

- National Champions in U19 category
- National 3rd place in the U17 category

2015-2018*Domžale, Slovenia*