Europass Curriculum Vitae

Personal Information

Name	Jovan Kašćelan
Address	Baku 38/II, Podgorica 81000, Montenegro
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E-mail	kascelan@bu.edu
Nationality	Montenegrin
Date of birth	26/02/2003
Gender	Male

Work Experience

Dates	**May 2024 – August 2024**
Position	**Internship at MoMA Lab NYUAD**
Main activities	Worked on privacy-preserving machine learning with focus on ResNet 18. Developed penalty functions to control input values for accurate polynomial approximations. Wrote and optimized PyTorch code to evaluate these functions.
Employer	MoMA Lab, NYU Abu Dhabi, UAE
Sector	Academic Research / Computer Science / Machine Learning
Dates	**May 2023 – August 2023**
Position	**Internship at MoMA Lab NYUAD**
Main activities	Researched polynomial approximations for privacy-preserving inference in encrypted domain. Investigated trade-offs for nonlinear functions in Vision Transformers. Implemented approximations using PyTorch.
Employer	MoMA Lab, NYU Abu Dhabi, UAE
Sector	Academic Research / Computer Science / Cryptography
Dates	**May 2022 – August 2022**
Position	**Internship at MoMA Lab NYUAD**
Main activities	Researched algorithms related to Fully Homomorphic Encryption (FHE), focusing on BGV scheme. Studied re-linearization, modulus switching, key switching, and bootstrapping.
Employer	MoMA Lab, NYU Abu Dhabi, UAE
Sector	Academic Research / Computer Science / Cryptography

Education

Dates	**August 2021 – May 2025**
Title	**Bachelor's Degree in Computer Science (Magna Cum Laude, GPA: 3.974/4.0)**
Subjects	Computer Science, Machine Learning, Cryptography, Algorithms

Institution	NYU Abu Dhabi, UAE
Level	ISCED 6
Dates	**September 2017 – June 2021**
Title	**High School Diploma, top 0.5%**
Subjects	General education
Institution	Slobodan Škerović High School, Podgorica, Montenegro
Level	ISCED 3
Dates	**September 2008-June 2017**
Title	**Primary School Diploma, Valedictorian (Đak generacije)**
Subjects	General education
Institution	Štampar Makarije Primary School, Podgorica, Montenegro
Level	ISCED 2

Personal Skills

Mother tongue	Montenegrin
Other languages	
English	Understanding C2, Speaking C2, Writing C2
German	Understanding B2, Speaking B2, Writing B2
French	Understanding B1, Speaking B1, Writing B1
Social skills	Strong teamwork from research labs, hackathons and group projects
Organisational skills	Independent coding, co-authoring papers
Technical skills	ML with PyTorch, Python, Cryptography (FHE), Algorithms, C++, C, Java, JS, SQL, HTML/CSS
Computer skills	Proficient in PyTorch, FHE frameworks, software engineering tools
Other skills	Piano, Chess, Reading, Basketball
Driving licence	Yes- B

Additional Information

Awards and Competitions	• Scholarship of the Ministry of Science of Montenegro (2021-2024) • The best young programmer in Montenegro (2019-2021) • Top 5 in National Math Competition (2021) • Represented Montenegro at IOI 2021 and 2019 • Represented Montenegro at Balkan Olympiads (2018-2019) • Top 3 in UAE at IEEEXtreme (2022) • MENSA member (2020–Present)
Publications	• Chielle E, Alam M, Liu J, Kascelan J, Maniatakos M. Privacy-Preserving ResNet Models using Low-Degree Polynomial Approximations and Structural Optimizations on Leveled FHE. arXiv preprint arXiv:2509.22857. 2025 Sep 26.

- Kascelan J, Yang R, Shasha D. EpiInfer: A Non-Markovian Method and System to Forecast Infection Rates in Epidemics. Algorithms. 2025 Jul 21;18(7):450.