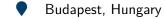
BERTALAN ZOLTÁN PÉTER

PHD STUDENT

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EDUCATION & CERTIFICATIONS

2023-	PhD Student	Doctoral School of Informatics Budapest University of Technology and Economics
2021–2023	Master of Science	Computer Engineering Budapest University of Technology and Economics
2017–2021	Bachelor of Science	Computer Engineering Budapest University of Technology and Economics
2011-2017	grammar school	Piarista Gimnázium, Budapest

Highest Diploma: Master of Science (Budapest University of Technology and Economics, Budapest, 2023)

Other certifications:

2025 Besu Certified Professional

2022 Oracle 1Z0-808 Java SE 8 Programmer I

2021 Green Certificate (for competence in course units on sustainable development; issued by the Department of Environmental Economics at BME)

🎞 MENTORING & PEDAGOGICAL EXPERIENCE

- Scientific Student Competition (TDK) Co-Advisor for two works
 - M. Tarnay: Qualitative Reasoning-Based Fault Diagnosis in Distributed Systems (1st Prize; 2nd Prize at the national competition (OTDK 2025))
 - M. Farkas, B. Á. Toldi: Self-Evaluated Policies Using Zero-Knowledge Proofs (1st Prize; 3rd Prize at the national competition (OTDK 2025))
- BSc Thesis Advisor
 - 2025 B. Tóth: Implementation Redundancy for Ensuring Fault Tolerance in Smart Contracts
 - 2024 A. Weisz: Distributed-Tracing-Based Diagnosis of Microservices (grade: excellent)
- Lab Supervisor on the mandatory BSc subject Software Engineering (2024, 2023)
- Lecture Presenter on BSc/MSc subjects
 - Reliable Distributed and Decentralized Systems (MSc, mandatory) - 2025, 2024
 - 2025..2023 Blockchain Technologies and Applications (BSc/MSc, elective)
- Co-Mentoring in the 2023 Hyperledger Mentorship Programme (mentee: T. Surve)
- University Lab Demonstrator during BSc and MSc studies from three subjects
 - 2022, 2021 Blockchain Technologies and Applications (BSc/MSc, elective)
 - -2020Operating Systems (BSc, mandatory)
 - Databases (BSc, mandatory) -2019

PROFESSIONAL EXPERIENCE

2020–2023 Linux System Administrator at Novin Bt.

NOTABLE PROJECTS

- 2024 Architect of the Data Veracity Assurance building block in the EDGE-Skills EU project
- 2024 Participation in the ADVANCE EU project
- 2023— Participation in the SME4DD and EDIH EU projects (providing professional school courses in blockchain-related topics)
- Participation in the *Project Rosalind* TechSprint (Phase 2) organized by the Bank for International Settlements (BIS)
- 2023- Participation in the cooperation programme between BME and MNB (the central bank of Hungary)

ACADEMIC COMMUNITY INVOLVEMENTS

- reviewed 1 BSc thesis
- reviewed 3 conference papers
 - The International Congress on Blockchain and Applications (BLOCKCHAIN'24) 2 papers reviewed
 - 27th Brazilian Symposium on Formal Methods (SBMF 2024) 1 paper
- reviewed 1 journal paper
 - 27th International Conference on Fundamental Approaches to Software Engineering (FASE 2024)
- minute taker at 2 state exams

Q AWARDS & SCHOLARSHIPS

2024-	Doctoral Excellence Fellowship Programme (DCEP)	
2023	3 rd place at the Polkadot Championship (as a member of a team of two)	
2022-2023	2–2023 National Higher Education Scholarship	
2022	Best MSc presentation on the 29th BME MIT Minisymposium (based on audience votes)	
2022	BME-VIK Scientific Student Competition: 2. Prize (Design for Dependability in Distributed Led Systems)	
2022	,	
2021		
2021	BME-MNB Excellent Scientic Student Competition Paper	
2021	BME-VIK Scientific Student Competition: 1. Prize (ZKP-based Audit for Blockchain Systems Managing Central Bank Digital Currency)	

■ SELECT PUBLICATIONS

■ B. Z. Péter, I. Kocsis. 'Privacy-Preserving Noninteractive Compliance Audits of Blockchain Ledgers with Zero-Knowledge Proofs.' Acta Polytechnica Hungarica 21.11 (2024). (2024 metrics: Q2, IF: 1.4)

CURRICULUM VITAE

- Á, Zsófia, B. Z. Péter, Z. Micskei, I. Kocsis. 'Smart Contract in the Loop: Fault Impact Assessment for Distributed Ledger Technologies.' The 14th Conference of PhD Students in Computer Science. 2024.
- B. Z. Péter, I. Kocsis. 'N-Version Programming as a Mitigation for Smart Contract Faults in Execute-Order-Validate Blockchain Systems.' 30th Minisymposium of the Department of Measurement and Information Systems (2023): 33-36.