ALPER ALIMOĞLU, PH.D.

Blockchain & Distributed Systems Researcher | Software Engineer

@ mailto:alper.alimoglu@gmail.com

• Cisco University Prize-winning research intern.

• RoboCup 3D Simulation Team (ITU AI & Robotics Lab).

https://github.com/github.com/avatar-lavventura

🖣 Istanbul, Turkey

SUMMARY

Researcher and software engineer with 12+ years of experience in software development, blockchain systems, and distributed computing. Ph.D. in Computer Engineering (Boğaziçi University). Strong publication record (SCI Q1/Q2). Experienced in both academia (lecturer) and industry. Skilled in Python, Solidity, cloud engineering, and smart contracts.

SKILLS

Python Solidity C Bash Ethereum Smart Contracts GNU/Linux Cloud Systems Distributed Computing Blockchain Docker EXPERIENCE			
		Senior Python Developer	
		Huawei	
		☐ Mar 2025 – Aug 2025	■ Istanbul, Turkey
\bullet Developed block chain-integrated software tools for	telecom infrastructure.		
• Optimized distributed systems for performance and scalability.			
Part-time Lecturer			
Boğaziçi University			
☐ Feb 2025 – Jun 2025	▼ Istanbul, Turkey		
• Taught Functional Programming and Verification.			
Middleware Administrator			
Anadolu Hayat Emeklilik			
☐ Aug 2024 – Nov 2024	▼ Istanbul, Turkey		
Cloud Engineer			
ICRON A.Ş.			
☐ Mar 2024 – Apr 2024	▼ Istanbul, Turkey		
Research Project Assistant			
Binghamton University (SUNY)			
☐ Aug 2012 – Jul 2015	● NY, USA		
• Smart Load Balancer: Applied Echo State Netv	work ML models for workload prediction in data centers.		
• b-ext4 File System: Hybrid SSD/HDD design to	o optimize performance and reduce energy consumption.		
Internships			
Cisco, Ericsson, ITU Robotics Lab			
□ 2009 – 2010	■ Istanbul, Turkey		

EDUCATION

Ph.D. in Computer Engineering

Boğaziçi University

□ 2016 – 2024

□ GPA 3.64/4.0

Thesis: EBlocBroker: Blockchain-based Computational Broker for e-Science Advisor: Prof. Can Ozturan

M.Sc. in Computer Science

Binghamton University (SUNY)

□ 2012 – 2014

□ Valedictorian, GPA 3.77

Thesis: Short-Term Workload Prediction with Reservoir Computing Advisor: Prof. Kanad Ghose

B.Sc. in Information Systems

SUNY Binghamton & Istanbul Technical University

 \Box 2008 - 2012

▼ Summa Cum Laude, GPA 3.89

PUBLICATIONS

Journal Articles

- Alimoglu, A., Özturan, C. "An Autonomous Blockchain-Based Workflow Execution Broker for e-Science", Cluster Computing, Springer (SCI-E Q1), May 2024. DOI:10.1007/s10586-024-04534-z
- Alimoglu, A., Özturan, C. "An Autonomous Blockchain-Based Computational Broker for e-Science", Concurrency and Computation: Practice and Experience, Wiley (SCI-E Q2), Mar 2024. DOI:10.1002/cpe.8087

Conference Papers

- Alimoglu, A., Özturan, C. "Design of a Smart Contract Based Autonomous Organization for Sustainable Software", IEEE 13th International Conference on e-Science, Oct 2017. IEEE Xplore Link
- Shahriar Asta, Tuna Sonmez, Onuralp Ulusoy, Alper Alimoglu, Mustafa Ersen, Ozdemir Sozmen, Sanem Sariel-Talay. "BeeStanbul Team Description Paper", RoboCup Symposium Workshop, Istanbul, Jul 2011. PDF Link

Preprints & Under Review

- Alimoglu, A., Erdayandi, K., Mustafa, M. A., Cali, Ü. "EDGChain-E: A Decentralized Git-Based Framework for Versioning Encrypted Energy Data", arXiv preprint, Jun 2025. arXiv:2507.01615
- Alimoglu, A., Özturan, C. "Blockchain Based Autonomous Organization for Sustainable Software and Execution History", Submitted to *Blockchain: Research and Applications*, Dec 2024.

HONORS & AWARDS



Valedictorian

Graduate commencement speaker, Binghamton University, 2014, Speech: "Protect Our Dreams"



Summa Cum Laude

Top of Class, B.Sc. in Information Systems, 2012



Cisco University Prize

Winner, 2010



Dean's List

Multiple honors at ITU & SUNY



Academic Achievement Award SUNY Binghamton, GPA 3.98, 2012