ALPER ALIMOĞLU, PH.D.

Blockchain & Distributed Systems Researcher | Software Engineer

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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		
Huawei		
☐ Mar 2025 – Aug 2025	Istanbul, Turkey	
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 Network ML b-ext4 File System: Hybrid SSD/HDD design to optimiz 		
T . 1:		
Internships Ciaco Friesson ITII Robotics Lab		
Cisco, Ericsson, ITU Robotics Lab 2009 – 2010	Istanbul, Turkey	
• Cisco University Prize-winning research intern.	V Isotalisti, Turkey	
 Cisco University Frize-winning research intern. RoboCup 3D Simulation Team (ITU AI & Robotics Lab). 		

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	lacktriangle Valedictorian, GPA $3.77/4.0$	
Thesis: Short-Term Workload Prediction w	vith Reservoir Computing Advisor: Prof. Kanad Ghose	
B.Sc. in Information Systems Engine	eering (Dual Diploma Program)	
Binghamton University - SUNY & Is	tanbul Technical University	

PUBLICATIONS

Journal Articles

 \square 2008 – 2012

• 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

 \blacksquare Summa Cum Laude, GPA 3.89/4.0 (SUNY), Overall 3.62/4.0

• 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., Erdayandi, K., Mustafa, M. A., Cali, Ü. "EDGChain-E: A Decentralized Git-Based Framework for Versioning Encrypted Energy Data", arXiv preprint, Jun 2025 (accepted - in press). arXiv:2507.01615
- 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., 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 Engineering, 2012



Cisco University Prize

Winner, 2010



Dean's List

Multiple honors at Binghamton University - SUNY & ITU



Academic Achievement Award

Binghamton University - SUNY, GPA 3.98/4.0, 2012