




# Parsa Poorsistani

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## EDUCATION

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- **Amirkabir University of Technology** 2020 — 2025  
BSc in Computer Science

## PUBLICATIONS

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- C. Zhao, P. Poorsistani, A. D. Toosi, T. Islam, M. Goudarzi (2025) **GraphFlash: Enabling Fast and Elastic Graph Processing on Serverless Infrastructure**. Planned to submit at *46th IEEE International Conference on Distributed Computing Systems (ICDCS '26)*. **In preparation**.
- MA. Mirzaei, P. Poorsistani, SA. Javadi (2024). **LEAD: Latency-Efficient Application Deployment for Microservices Architecture**. *29th International Conference on Automation and Computing (ICAC '24)*

## RESEARCH EXPERIENCE

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**University of Michigan** Remote  
*Research Intern Under Prof. Ang Chen* 8/2024 — 12/2024

- Extended SpotProxy, a censorship circumvention system, to support full Layer 4 protocol coverage through WireGuard integration. Implemented custom packet encapsulation protocol and concurrent architecture in Go to improve system scalability.

**University of Melbourne** Remote  
*Research Assistant Under Prof. Adel N. Toosi* 4/2024 — 3/2025

- Implemented core optimizations for GraphFlash, a serverless graph processing framework, including selective write-back mechanisms, custom serialization with compression, and message batching. Developed and evaluated a Kubernetes-based infrastructure using Knative for deployment portability.

**Amirkabir University of Technology** Tehran, Iran  
*Research Assistant Under Prof. Seyyed Ahmad Javadi* 9/2023 — 9/2024

- Developed LEAD, a latency-aware application scheduling system for Kubernetes, resulting in a published paper as co-first author. Designed and implemented a multi-node Kubernetes cluster for experimental validation. Built a custom plugin integrating with Prometheus for real-time rescheduling.

## INDUSTRY EXPERIENCE

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**Cafe Bazaar** Tehran, Iran  
*Software Engineer* 10/2024 — Present

- Implemented and maintained core VOD services at Bazaar in Go and Python. Built video analytics pipeline using dual serialization formats over Kafka, and maintained team's data infrastructure to ensure high availability and scalability.

**Hamkaran System** Tehran, Iran  
*Software Engineer* 3/2023 — 12/2023

- Developed new features for Iran's leading ERP platform as part of the Manufacturing Team, focusing on system efficiency and feature development in C#.

**Rahnema College** Tehran, Iran  
*Software Engineer Intern* 7/2022 — 10/2022

- Selected as one of 24 participants from over 3000 applicants through competitive programming contest and interviews. Completed comprehensive full-stack training covering back-end, front-end, Android development, and DevOps practices.

**Sefr Educational Solutions** Tehran, Iran  
*Back-end Developer* 7/2021 — 1/2022

- Developed microservice APIs using Django-REST for an educational consulting platform with task management functionality.

## TEACHING EXPERIENCE

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**Amirkabir University of Technology**

*Teaching Assistant*

Tehran, Iran

- Data Structure and Algorithms
- Design of Algorithms
- Advanced Programming
- Compiler Design
- Operating Systems
- Computer Networks

*Fall 2023, Spring 2023*

*Spring 2023*

*Spring 2023*

*Fall 2023*

*Spring 2024*

*Spring 2024*