

# Parsa Poorsistani

✉ [poorsistani13@gmail.com](mailto:poorsistani13@gmail.com) — [github.com/parsa-poorsistani](https://github.com/parsa-poorsistani)

## EDUCATION

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• **Amirkabir University of Technology**, Tehran, Iran  
BSc in Computer Science

2020 — Present

## RESEARCH INTERESTS

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- Operating Systems
- Networked Systems
- Distributed Systems
- Cloud Computing

## PUBLICATIONS

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- P. Poorsistani, M. Mirzaei, A. 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

Research Assistant Under Prof. Ang Chen

Remote

7/2024 — Present

- Working on state-of-the-art SpotProxy project featured at USENIX SEC 2024.

### University of Melbourne

Research Assistant Under Prof. Adel N. Toosi

Remote

4/2024 — Present

- Working on building a server-less cloud-native infrastructure for graph processing.

### Amirkabir University of Technology

Research Assistant Under Prof. Seyyed Ahmad Javadi

Tehran, Iran

9/2023 — 9/2024

- Worked on LEAD, a latency-efficient application deployment framework for micro-services architecture on Kubernetes. I served as a co-first author.

## 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

## INDUSTRY EXPERIENCE

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### Snapp

Infrastructure Engineer

Tehran, Iran

8/2024 — Present

- Iran's leading ride-hailing platform, similar to Uber and Lyft. I'm a part of the Infrastructure team at SnappBox.

### Hamkaran System

Software Engineer

Tehran, Iran

3/2023 — 12/2023

- Hamkaran System is Iran's leading ERP company. As an integral member of the Manufacturing Team, spearheaded the development of new features, focusing on building new features and system efficiency.

### Rahnema College

Software Engineer Intern

Tehran, Iran

7/2022 — 10/2022

- Among the elite group of 24 participants selected from over 3000 applicants based on a competitive programming contest and interviews, reflecting strong analytical and problem-solving skills. This internship was held by Tapsi, a ride-hailing platform in Iran.

## Sefr Educational Solutions

*Back-end Developer*

Tehran, Iran

7/2021 — 1/2022

- I was working on microservice APIs mostly based on Django-rest for an educational consulting product that acts as a task manager for students.

## SKILLS

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- **Programming:** golang, Rust, Python, C/C++, C#, Java, node.js, BASH
- **Frameworks, Tools:** Docker, Kubernetes, git, django, PostgreSQL, gRPC, mongodb, .NET, Unix-ish Operating Systems, SQL-Server, RabbitMQ, Redis
- **General:** Deep Systems Knowledge, Data Structures and Algorithms, Problem Solving, Software Architecture, OOP

## Selected Projects

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- Paxos/Multi-Paxos: Implemented Paxos consensus algorithm in Go
- rtcp: implemented L3/L4 network stack from scratch in rust
- rusty-maelstorm: maelstorm distributed system challenge in rust
- Rahnema-FPL: bacekend of our project in Rahnema college written in node.js and typescript, redis and mongodb.