

Parsa Poorsistani

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EDUCATION

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

2020 — Present

RESEARCH INTERESTS

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

PUBLICATIONS

- 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

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

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

Cafe Bazaar

Senior Software Engineer

Tehran, Iran

10/2024 — Present

- Iran's leading app store platform for android. I am part of the Platform team at which develops the core components and infrastructure.

Snapp

Infrastructure Engineer

Tehran, Iran

7/2024 — 10/2024

- Iran's leading ride-hailing platform, similar to Uber and Lyft. I was 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.

Sejr 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

- **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

- SpotProxy: Cloud-hosted proxies with minimal cost and maximum circumvention utility
- 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: backend of our project in Rahnema college written in node.js and typescript, redis and mongodb.