Parsa Poorsistani

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EDUCATION

Amirkabir University of Technology, Tehran, Iran   2020 — 2025(expected)
BSc in Computer Science

PUBLICATIONS

- M. Mirzaei, P. Poorsistani, A. Javadi (2024). **LEAD: Latency-Efficient Application Deployment in Microservices Architecture**. *29th International Conference on Automation and Computing (ICAC24)*

EXPERIENCE

University of Melbourne   Tehran, Iran
Research Assistant Under Prof. Adel N. Toosi   4/2024 — Present

- Working on building a serverless environment for graph processing

Amirkabir University of Technology   Tehran, Iran
Research Assistant Under Prof. Ahmad Javadi   10/2023 — Present

- Contributed to the design and development of LEAD, a latency-efficient application deployment framework for Kubernetes environments, in the Cloud Computing and Operating Systems Lab.
- Led the setup and management of a bare-metal Kubernetes cluster to provide a robust infrastructure for research and development.
- Developed and implemented critical components of the LEAD scheduling algorithm, enhancing system design and efficiency.
- Engineered the architecture and integrated monitoring and benchmarking tools to evaluate system performance and identify optimization opportunities.
- Co-authored a research paper on LEAD, detailing the system's architecture, algorithms, and performance, which was submitted to a peer-reviewed conference.

Amirkabir University of Technology   Tehran, Iran
Teaching Assistant

- Data Structure and Algorithms   Fall 2023, Spring 2023
- Design of Algorithms   Spring 2023
- Advanced Programming   Spring 2023
- Compiler Design   Fall 2023
- Operating Systems   Spring 2024
- Computer Networks   Spring 2024

Hamkaran System   Tehran, Iran
Software Engineer   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 enhancing user experience and system efficiency in C#.
- Led the refactoring of legacy code, significantly improving system performance and maintainability.
- Diligently identified and resolved critical bugs, ensuring robust and error-free server-side operations.
- Actively collaborated with business teams to align software solutions with strategic objectives.
- Excellent team player with a knack for bridging technical and business perspectives.

Rahnema College   Tehran, Iran
Software Engineer Intern   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.
- Acquired comprehensive skills in full-stack development, including front-end, back-end, and mobile (Android) programming, along with an introduction to DevOps.
- Collaborated in a team of six to develop a web application, leading back-end development and DevOps tasks.
- Enhanced expertise in managing infrastructure and deployment processes, laying the foundation for future interest and proficiency in this area.
- Developed strong teamwork and collaboration skills in a rigorous, fast-paced learning environment.

Sefr Educational Solutions Tehran, Iran

Back-end Developer 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.
- I worked on an Agency Panel web app for the platform based on Django and built automated testings.

SKILLS

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