

## PERSONAL INFORMATION

### Erfan Rahnemoon

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🐙 <https://github.com/rahnemoon>

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Gender Male | Date of birth 27 Oct 1994 | Nationality Iranian

## SKILLS

- Python **Ten years** of coding, developing web applications, middlewares, OS-level applications, and scripts
- **Django** • **Flask** • FastAPI • Pandas • Robot Framework • SciPy • **SQLAlchemy** • OpenCV Python
  - Scrapy • BeautifulSoup • Requests • **Asyncio** • **Celery** • **Daphne** • Uvicorn • Beaker • **Marshmallow**
  - uWSGI • Gunicorn • Eventlet • Supervisor • Sphinx • Pingo • **aiohhttp** • etc.
- DevOps **Four years** of experience in virtualization techniques, continuous integration/delivery/deployment.
- **Docker** • Vagrant • **Jenkins** • Ansible • Gradle • GitLab CI/CD • **GitHub CI/CD** • OpenStack • KVM • etc.
- Linux Daily driving Linux as main OS for more than **fourteen years**
- Daemons • Networking • File Systems • Utilities
- C++ **Six years** of practice, mainly embedded systems and Linux center
- ATmega • Arduino • RIOT-OS • FreeRTOS • Contiki • etc.
- GO Developed a couple of middlewares and web applications
- **Go kit** • **GORM** • Vegeta • etcd • NSQ • Authboss • etc.
- Java **Seven years** of working with java primarily for university tasks and simulations with a several commercial projects
- **Hibernate** • EclipseLink • **Spring Boot** • Spring • Jersey • TomEE • Jakarta EE
- Database Experienced with Relational and NoSQL databases
- **MongoDB** • **PostgreSQL** • MySQL • MariaDB • **Redis**

## WORK EXPERIENCE

Jan 2021 – Sep 2021

### Back-End Developer & DevOps

Polytechnic University of Milan (Politecnico di Milano), Milan, Italy

Responsibilities Part-time work as a Back-end python developer and DevOps on a tutoring site (specifically chatbot) of the university:

- Changing the interaction model of a chatbot **to reduce the duplicated questions and answers to under 5% in one session** • Reduce the response time from **seconds to ml seconds** • **Doubling** the test coverage • Adding a new classroom feature to project • Refactoring the **30%** of the codebase
- Containerization of the project and deploying utility stacks like **ELK** (logging stack)

Aug 2015 – Oct 2016

### Back-End Developer & Sysadmin

Rythem, Iran

An audio streaming service for Iranian music

Responsibilities • Web application and **REST API** development Using **Django** • Developing streaming services by **Apache Kafka and Flink** • DevOps tasks like Containerization and deployment of services, Monitoring and maintaining of infrastructure, etc. using Docker

Jan 2017 – Dec 2017

### Back-End Developer & Sysadmin

IN-JA, Iran

In-door localization on Android phones using wireless networks like wifi, Bluetooth, etc.

Responsibilities • **REST API** development using **Flask** • Developing real-world testbeds for Possibility evaluations of technologies • Designing algorithms and methods for localization based on available networks • DevOps tasks like helping with the design of the microservices, Containerization and deployment of services, Monitoring of infrastructure, Load balancing and safe fails, etc. using **Docker and Docker-swarm**

### Jan 2018 – Jun 2019 Junior Researcher in Internet of Things Laboratory

University of Kurdistan, Sanandaj, Iran

Responsibilities • Studying the Internet of Things in four layers (Datalink, Network, Adoption, Transport) with a particular focus on RPL(routing protocol) and 6LoWPAN • Expanding the implementation of RPL, 6LoWPAN, CoAP, and MQTT in Contiki OS and RIOT OS • Developing modules and testbeds for simulations (Cooja simulator) and real-world experiments

### Feb 2017 – Jul 2019 Junior Researcher in Computer Networks Laboratory

University of Kurdistan, Sanandaj, Iran

Responsibilities • Studying and working on Data Center Networks topologies and stack, particularly on application and transport layer • Altering the TCP implementation and its queuing policies in the Fat-Tree topology to gain better control of the packet-flows • Using NS3 for simulation and developing customized discrete event-driven simulator using SimPy

### Sept 2017 – Mar 2018 Internship

Innovation Center, University of Kurdistan, Sanandaj, Iran

Responsibilities • Senior developer of the Graduated Student Community base on WordPress • Developing nine customized plugins based on the need of the university to have a forum and add students after graduation automatically from the educational system, etc.

## EDUCATION AND TRAINING

### Sep 2019 – Present Master of Computer Science and Engineering

EQF level 8

Polytechnic University of Milan (Politecnico di Milano), Milan, Italy

• Distributed Systems • Middleware for Distributed Systems • Software Engineering • Embedded Systems • Advanced Operating System • Computer Infrastructure • Advance Computer Architecture • Computer Security • Wireless Networks • Mobile Radio Networks • Internet of Things

### Sep 2014 – Feb 2019 Bachelor of Science in Computer Software Engineering

EQF level 7

University of Kurdistan, Sanandaj, Iran

• Mathematics and Statistics • Computer Programming Principles • Software Engineering • Computer Architecture • Operating Systems • Algorithms and Data Structures • Research Methods

Thesis The RPL and 6LoWPAN protocols improvement in End-to-End Delay, Energy Consumption, and Throughput (Supervisor Sadoon Azizi)

## PERSONAL SKILLS

Mother tongue Persian, Turkish, Kurdish(Sorani)

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills – Team Work: work in various types of teams, from research teams to software companies and startups with a diverse number of members, experienced in team leading and team coordination

## ADDITIONAL INFORMATION

Specialty Courses

• Data Mining • Internet of Things • Social Network Analysis • Database Systems Implementation • Digital Computer Design • Computer Networks • Statistic Learning & Machine Learning • Information Retrieval and Web Search • Artificial Intelligence • Management Information System

Certifications

• Python Programming • Linux LPIC-I & LPIC-II • Web programming