

# Amirhossein Shekari

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## Work Experience

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### • DevOps Engineer, Doctoreto.com

DoctorTo is the foremost online medical appointment platform, integrating telemedicine to enhance patient convenience while saving time and money. Amid the challenges presented by the COVID19 pandemic, DoctorTo has played a crucial role in minimizing unnecessary in-person doctor visits, providing a diverse range of solutions to efficiently address patients' healthcare requirements. 2021 - 2022

- Managed infrastructures encompassing network and virtualization, overseeing more than 140 virtual machines (VMs), and handling a staggering volume of 68 million HTTP requests per day.
- Implemented and managed a robust monitoring and logging infrastructure using Prometheus, Grafana, and the ELK Stack to ensure system health and observability.
- Developed a pull request PR environment from scratch to integrate the old architecture and leverage the benefits of PR environments. These PR environments are created to test and review code changes before merging them into the main codebase.
- Developed an automated green and blue deployment strategy by efficiently redirecting traffic at the edge of the network. This integration was seamlessly incorporated into the existing architecture, enabling us to reap the benefits of Continuous Deployment.
- Developed a script to mask and restore confidential data for Data Science team.
- Maintain and develop six automation pipelines to facilitate Continuous Integration and Continuous Deployment CI/CD processes.
- Maintained 24-hour operations, and ensured 99.9 % uptime for the servers, performing backups of all servers
- Implemented Docker to improve developer productivity and achieve server consolidation and management.

### • TechLead, AvalPardakht

AvalPardakht is a leading payment company that offers a fully automated platform for purchasing and exchanging cryptocurrencies. 2019 - 2020

- Led team building efforts and successfully implemented agile software development methodologies to facilitate a smooth migration from the old codebase to the new codebase.
- Implemented robust monitoring systems and strengthened the infrastructure to enhance system capacity and resilience against attacks. These monitoring systems enable rapid identification and repulsion of most DOS and DDOS attacks, ensuring minimal downtime and maximum security.
- Implemented pressure testing to calculate server tolerance thresholds, effectively identifying system bottlenecks and optimizing website performance. This approach allows for proactive measures to enhance server capacity and improve overall system efficiency.

### • Python Developer, Farbodan Fanavar Hezare Sevom

The BitCard project introduced credit payment options on bank POS, enabling customers to set installment plans via a web panel and conveniently pay their debts online. This system also allowed customers to increase their credit limit after settling their dues. Implemented a payment gateway using the ISO8583 protocol in conjunction with Django REST. This integration enabled secure online payments on the web service platform, while the new banking POS (Android) was able to transmit transactions seamlessly to the RESTful platform. The system ensured secure and efficient payment processing for users and businesses. 2016 - 2017

## Skills

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- Automation: **Terraform**, **AWS Cloud Formation**, Ansible, Jenkins, Github Action, Gitlab-CI, n8n
- Version Control: Git, GitHub, GitLab
- Programming/Scripting languages: **Python**, **Bash**, PHP, Solidity
- Cloud Computing Platform: **AWS**, **Azure**
- Libraries: Scikit-learn, TensorFlow, SQLAlchemy, Web3, ...
- Database: MariaDB, **MySQL**, **Postgresql (Timescaledb)**, MongoDB
- Object Storage: MinIO, **S3**
- Architecture: Monolithic, **Microservices**
- Message-Broker: MQTT, RabbitMQ, Apache Kafka
- Web-Framework: Django, FastAPI, CherryPy
- Network Protocols: Full understanding of TCP/IP stack(DNS, OpenVPN, HTTP[s], Wireguard , ...), 802.11
- Firewall: OpnSense, IPtables, Mikrotik, pfSense
- Boards: Arduino, Raspberry pi
- Agile: Jira
- Monitoring: **DataDog**, **Grafana**, **Prometheus**, **Zabbix**, Sentry, **CloudWatch**, X-ray
- LoadBalancer: **HAProxy**, **Nginx**, traefik
- Offensive Security Tools: Nmap, Acunetix, Metasploit, SQLMap, **OWASP-Zap**
- OS: Microsoft Windows server, Linux [Debian, Arch]
- Virtualization: **ESXi**, **Proxmox**
- Documentation platform: Atlassian Confluence, Swagger, Insomnia, Obsidian

## Education

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- Politecnico of Turin University, **ICT for Smart Societies**

2022 - 2025