Contact

hodas.jafari@gmail.com

www.linkedin.com/in/
hodasadatjafari (LinkedIn)
github.com/HodaSadatJafari
(Other)
forms.fillout.com/t/kp6pNLX927us
(Other)

Top Skills

Programming
Artificial Intelligence
SQL

Certifications

Getting Started With AWS Machine
Learning
Introduction to Software Product
Management
Concurrency in Go

Honors-Awards

FarsNet Project
Top Master student

Hoda Sadat Jafari

AI Software Engineer | LLMs | Python | Django | PostgreSQL | AWS |
Backend Developer | Remote Freelancer | Open to Projects
Tehran Province, Iran

Summary

I'm an Software Engineer with a Master's degree in Artificial
Intelligence and a strong foundation in backend development,
data pipelines, and cloud infrastructure. My work bridges the gap
between machine learning theory and production-grade engineering
— transforming complex AI models into scalable, efficient software
solutions.

Over the years, I've contributed to projects across the AI and web
ecosystems, including:

Building LLM-based applications
Creating ETL pipelines and data transformations
Building sound backend systems with Python, Django, and
PostgreSQL
Deploying with AWS and Docker in remote, cross-functional teams

Key Skills:

Python, Django, Django REST Framework
AI/ML Integration (LLMs, NLP, model deployment)
PostgreSQL, ETL, Pandas, NumPy
AWS (EC2, S3), Docker, Git, CI/CD
Remote collaboration and agile delivery

I'm currently focused on remote freelance/contract roles, ideally in AI
product development, ML tooling, or intelligent backend systems. I'm
passionate about bringing AI to life — whether that's through a better
chatbot, smarter data pipeline, or scalable backend.

Let's chat if you're developing something in the AI space or require a
strong backend/AI hybrid engineer to assist in translating ideas into
functioning systems.

Experience

Samnetic
AI Software Engineer
September 2025 - Present (4 months)

We are building a RAG based customer service.

I am responsible for developing RAG components i.e indexing data with Weaviate, retrieving, developing agents and tools

Maha
Software Engineer
November 2023 - March 2025 (1 year 5 months)

Bazarche Mofid aims to enhance the online shopping experience for customers.

• Developed a scalable shopping application with Django and PostgreSQL, introducing both OTP and password authentication.

• Deployed Sentry for logging, reducing error diagnosis time and enhancing system reliability; programmed a Flask webhook to send
real-time alerts via Telegram and domestic messenger, enabling faster event notifications.

• Leveraged Redis for caching, reducing database load and boosting application speed.

Sphaira
Software Engineer
July 2024 - October 2024 (4 months)
Berlin, Germany

Sphaira specializes in autonomous logistics solutions for sensitive environments, utilizing robotics technology for the seamless transportation of people and goods.

• Engineered more than 20 APIs that streamlined task collection and delivery to autonomous robots.

• Boosted communication precision between robots and managers using Django Rest Framework and PostgreSQL, resulting in im-
proved operational visibility.

• Integrated the VDA5050 standard, optimizing robot task management.

FleetSpark
Software Engineer
June 2020 - August 2023 (3 years 3 months)
Berlin, Germany

FleetSpark provides intelligent fleet management solutions, optimizing logistics and transportation through advanced technology.

• Developed and deployed over 200 RESTful APIs, connecting to external systems like TomTom for route optimization, Stripe for pay-
ments, Twilio for SMS, and Slack for managements.

• Achieved a 99.9% uptime by containerizing the project with Docker and monitoring through AWS ECR, ensuring consistent service
delivery.

• Introduced JWT authentication, enhancing the security of the platform

• Expanded test coverage with 300+ unit tests, improving code reliability and reducing bugs in production

• Profiled APIs using the Silk package to identify performance bottlenecks, optimizing response times and increasing efficiency by 50%
through code refactoring and SQL query optimization.

• Transformed raw IoT data into actionable insights using Pandas, NumPy, and Scikit-learn, enabling fleet managers to optimize routes
and reduce fuel consumption.

• Created over 100 complex SQL queries for data extraction, leading to more efficient data analysis and reporting.

• Built and integrated more than 30 APIs for data dashboards, allowing managers to make faster, data-driven decisions.

CiC and APA Research Center, Amirkabir University of Technology
Software Developer
June 2019 - May 2020 (1 year)
Tehran Province, Iran

CIC and APA Research Center provides innovative software solutions to enhance academic and administrative processes at Amirkabir
University.

• Managed a project that automated professor promotion processes, reducing manual data entry by 80% through the creation of over
80 dynamic HTML forms.

• Built a vulnerability analysis tool, identifying and alerting users to security issues, leading to detection of potentia

Chaapaar
Software Developer
May 2016 - May 2019 (3 years 1 month)
Tehran Province, Iran

Chaapaar is an Iranian email service provider, focused on delivering secure and reliable communication solutions.

• Enhanced Spam Detection: Improved spam detection accuracy by 30% by implementing a Naïve Bayes classifier and integrating it with Apache SpamAssassin.

• Security Analysis: Conducted regular security assessments, including code reviews and vulnerability scanning using Burp Suite, to identify and mitigate potential threats.

• Code Auditing: Reviewed source code to detect and address security vulnerabilities, ensuring compliance with industry best practices.

• Incident Reporting: Identified and reported vulnerabilities to development teams, facilitating timely fixes and improving system security.

• Team Collaboration: Worked closely with cross-functional teams to ensure secure and efficient code deployment processes.

Datis Pars Java Solutions Co.
Software Developer
December 2014 - December 2015 (1 year 1 month)
Tehran Province, Iran

DATIS specializes in log data analysis for security information and event management (SIEM) applications.

• Designed 50+ regex patterns for identifying log data patterns, improving data classification accuracy.

• Applied clustering and classification algorithms, achieving a 95% precision in log data categorization and significantly accelerating security event identification.

JANUARY 13, 2025

HODA SADAT JAFARi · RÉSUMÉ

1Research Assistant

Tehran, Iran

INTELLiGENT MULTiMEDiA PROCESSiNG RESEARCH LAB, AMiRKABiR UNiVERSiTY OF TECHNOLOGY

Sep. 2011 - Nov 2014

• Proposed and engineered a novel extractive speech summarization algorithm, increased summarization accuracy by 5% compared to longest sentences and by 3% compared to selecting

Amirkabir University of Technology - Tehran Polytechnic

Research Assistant
September 2011 - November 2014 (3 years 3 months)
Tehran Province, Iran

• Proposed and engineered a novel extractive speech summarization
algorithm, increased summarization accuracy by 5% compared
to longest sentences and by 3% compared to selecting the first sentences.
• published three papers on speech signal processing.

Shahid Beheshti University
Research Assistant
December 2008 - September 2011 (2 years 10 months)
Tehran Province, Iran

• Boosted tokenization precision to 94% and stemming accuracy to 96%,
significantly improving the performance of Persian language
NLP tools.
• Collaborated on the FarsNet project, receiving recognition from the
university's dean.

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Education

Amirkabir University of Technology - Tehran Polytechnic
Master's degree, Artificial Intelligence · (2011 - 2013)

Shahid Beheshti University
Bachelor's degree, Computer Engineering