

# Hamed Ghaderi

AI Tech Lead / Developer | M.Sc. Cosmology, University of Zanjan

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## PROFILE

AI Tech Lead and Python developer with +4 years of experience spanning AI product development, data science, and backend engineering. Combines a research background in Computational Cosmology with hands-on expertise in Machine Learning, LLM fine-tuning, and distributed systems to design and ship automated, AI-powered workflows for business and marketing applications.

## PERSONAL INFORMATION

|                                  |                    |                               |
|----------------------------------|--------------------|-------------------------------|
| <b>Age</b> 33                    | <b>Gender</b> Male | <b>Marital Status</b> Married |
| <b>Military Service</b> Exempted |                    |                               |

## SALARY EXPECTATION

60 – 80 Million Tomans / month

## WORK EXPERIENCE

|                                                                                                                                                                                                                                                                                                      |                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>AI Tech Lead</b><br><b>A1 Intcommerce Inc.</b> <ul style="list-style-type: none"><li>Designed automated workflows for management and business operations.</li><li>Developed AI-powered products for digital marketing and SEO.</li></ul>                                                          | <i>Apr 2025 – Mar 2026 (11 months)</i><br>Mashhad, Iran       |
| <b>AI Senior Researcher</b><br><b>University of Zanjan</b> <ul style="list-style-type: none"><li>Conducted applied AI research alongside graduate studies in Galaxy image classification.</li><li>Two research papers published on <a href="#">IAAJ</a> and <a href="#">APJS</a> journals.</li></ul> | <i>Sep 2022 – Aug 2024 (1 year 11 months)</i><br>Zanjan, Iran |
| <b>Python Developer</b><br><b>iFiMAS</b> <ul style="list-style-type: none"><li>Built and maintained backend systems and data pipelines to analyze crypto currency market.</li></ul>                                                                                                                  | <i>Jun 2023 – Apr 2024 (10 months)</i><br>Tehran, Iran        |
| <b>Data Science Intern</b><br><b>Self-Employed</b> <ul style="list-style-type: none"><li>Applied data science and analysis techniques on independent projects.</li></ul>                                                                                                                             | <i>Dec 2021 – Aug 2022 (8 months)</i><br>Mashhad, Iran        |
| <b>Python Developer</b><br><b>Salman Higher Education Institute</b> <ul style="list-style-type: none"><li>Developed Python-based tools and applications for image analysis.</li></ul>                                                                                                                | <i>Dec 2019 – Aug 2020 (8 months)</i><br>Mashhad, Iran        |
| <b>iOS Developer</b><br><b>Pars Sava – Khorasan Science &amp; Technology Park (KSTP)</b> <ul style="list-style-type: none"><li>Built and maintained VR application.</li></ul>                                                                                                                        | <i>Aug 2018 – May 2019 (9 months)</i><br>Tehran, Iran         |
| <b>Science Journalist</b><br><b>Akharin Khabar</b> <ul style="list-style-type: none"><li>Wrote and edited science-focused journalistic content.</li></ul>                                                                                                                                            | <i>Jul 2015 – Mar 2016 (8 months)</i><br>Mashhad, Iran        |

EDUCATION

|                                                                                     |             |
|-------------------------------------------------------------------------------------|-------------|
| <b>Master's Degree, Computational Cosmology</b><br>University of Zanjan             | 2022 – 2024 |
| <b>Bachelor's Degree, Software Engineering</b><br>Salman Higher Education Institute | 2015 – 2019 |

LANGUAGES

|                       |                         |                     |
|-----------------------|-------------------------|---------------------|
| <b>Persian</b> Native | <b>English</b> Advanced | <b>Arabic</b> Basic |
|-----------------------|-------------------------|---------------------|

TECHNICAL SKILLS

|                          |                                    |
|--------------------------|------------------------------------|
| <b>Python</b> Advanced   | <b>Django</b> Advanced             |
| <b>REST API</b> Advanced | <b>PostgreSQL</b> Advanced         |
| <b>MongoDB</b> Advanced  | <b>Git</b> Advanced                |
| <b>GitLab</b> Advanced   | <b>Docker</b> Advanced             |
| <b>Linux</b> Advanced    | <b>Screaming Frog</b> Intermediate |

ADDITIONAL SKILLS

|                     |                      |               |                     |
|---------------------|----------------------|---------------|---------------------|
| Data Science        | Data Mining          | Data Analysis | Machine Learning    |
| Deep Learning       | Neural Networks      | Scikit-Learn  | Distributed Systems |
| Data Processing     | Statistical Modeling | LLMs          | Fine-Tuning         |
| Chatbot Development |                      |               |                     |

PORTFOLIO

Workflows

Practical Private Chatbots

Self-hosted, orchestrated chatbot workflows built for internal business use, enabling private conversational support and automation without routing data through third-party platforms.

Status: *Live / Production*

Humanized Content Generator & Auto-Publisher

End-to-end n8n automation that generates humanized text and image content and automatically publishes posts to the A1 Immigration website blog, eliminating manual content operations.

Status: *Live / Production*

Competitors Analyzer Agent

AI agent workflow that continuously tracks and analyzes competitor websites and marketing activity, generating actionable insights for strategy and SEO.

Status: *Live / Production*

Technical SEO Analyzer & Fixer

Automated workflow that audits websites for technical SEO issues — crawlability, page speed, structured data, and more — and applies fixes automatically, reducing manual SEO maintenance.

Status: *Live / Production*

Products

Intelligent Digital Marketing Assistant

AI-powered digital marketing assistant that automates campaign planning, content generation, and SEO tasks; developed as a flagship internal product at A1 Intcommerce.

Status: *Live / Production*

## **ZEMO – Web App**

Interactive Streamlit application exposing the ZEMO library's Zernike-moment image analysis through a browser-based interface.  
Status: *Live / Deployed*

## **Chrome Extension – Real-Time Voice-to-Text**

Chrome extension providing real-time voice-to-text transcription using the Google Speech-to-Text API, enabling fast, hands-free text input directly in the browser.

Status: *Live / Production*

## *Website Design (WordPress)*

### **A1 Immigration Website**

Designed and built the A1 Immigration corporate website on WordPress, including content structure, blog integration, and SEO-ready architecture.

Status: *Completed / Live*

### **Radman Financial Consultant Group Website**

Designed and developed the Radman Financial Consultant Group website on WordPress, delivering a professional, client-facing presence for financial advisory services.

Status: *Completed / Live*

### **A1 Intcommerce Inc. Website**

Designed and built the corporate WordPress website for A1 Intcommerce Inc., showcasing the company's digital marketing and AI-driven service offerings.

Status: *Completed / Live*

## *Medical AI Projects*

### **Fine-Tuning Vision-Language Models on OPG Dental Dataset**

End-to-end project spanning data gathering and dataset preparation from panoramic (OPG) dental X-rays, followed by fine-tuning a vision-language model to build a reporter model that generates structured diagnostic findings from dental images.

Status: *Completed / Research*

### **Breast Cancer Detection Model Training**

Trained and evaluated a deep learning model for breast cancer detection from medical imaging data, supporting automated, early-stage diagnostic classification.

Status: *Completed / Research*

## *Research & Open Source*

### **Job Finder – Telegram Bot**

AI-powered product-similarity finder bot built for A1 Intcommerce; helps users discover visually and semantically similar products for e-commerce and digital marketing use cases.

Status: *Live / Production*

### **ZEMO – Python Package**

Open-source Python library for computing Zernike moments of digital images, used for shape characterization and image analysis; co-authored and published to PyPI.

Status: *Published / Actively available*

### **Machine Learning for Morphological Galaxy Classification**

Research repository implementing five ML models (SVM and 1D-CNN with Zernike moments; 2D-CNN, ResNet50, and VGG16 with Vision Transformer) to classify Galaxy Zoo 2 images by galaxy/non-galaxy and spiral/elliptical/odd morphology. Companion to a peer-reviewed publication.

Status: *Published research / Public repository*