

Jafar Jafari Amirbandi

TECHNICAL LEAD · CTO · MACHINE LEARNING SPECIALIST

Tehran, Iran

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“Striving to do my best in everything I do - because small changes can lead to massive impact.”

Summary

Technology leader with 15 years of experience in AI, computer vision, and enterprise software development. Currently serving as Technical Lead at VergeCloud, leading 20 engineers in building scalable cloud infrastructure and CDN services. Proven expertise in developing production-ready AI systems, including License Plate Recognition (LPR) achieving 99% accuracy at 25 FPS real-time processing.

Specialized in modern cloud technologies: Golang backend services, PostgreSQL optimization, Kubernetes orchestration, and event-driven microservices architecture. Expert in multi-tenant SaaS platforms, comprehensive monitoring with Prometheus/Grafana, and robust testing frameworks. Strong leadership experience scaling engineering teams from 2 to 20+ members, managing \$2M+ technology budgets, and implementing DevOps practices that reduced system downtime by 40%. Proven track record in risk management, strategic decision-making, and driving digital transformation across multiple organizations.

Experience

VergeCloud

Bangalore, India

TECHNICAL LEAD

Mar. 2024 - Present

- Led technical team of 20 engineers building cloud infrastructure and CDN services serving 1,000+ clients
- Architected scalable backend services with Golang, achieving 99.9% uptime and sub-50ms response times
- Implemented PostgreSQL database architecture with optimized queries, improving data retrieval performance by 60%
- Designed event-driven architecture for real-time data processing, handling 10M+ events daily
- Established comprehensive monitoring with Prometheus/Grafana, reducing incident resolution time by 70%
- Implemented multi-tenant SaaS architecture supporting 500+ organizations with complete data isolation
- Developed robust testing frameworks achieving 90%+ code coverage and reducing production bugs by 80%
- Integrated payment systems (Stripe, Chargebee) processing \$1M+ in monthly transactions
- Scaled engineering team from 4 to 20 members while establishing CI/CD pipelines and microservices architecture

Fanap Infrastructure

Tehran, Iran

CHIEF TECHNOLOGY OFFICER

Sep. 2016 - Mar. 2024

- Led 20-member engineering team within 200-employee organization, managing \$2M+ annual technology budget
- Implemented advanced AI/ML solutions including YOLO v4/v5, achieving 95%+ accuracy in real-time object detection
- Deployed NVIDIA Jetson edge computing devices, reducing inference latency by 50% for real-time applications
- Architected cloud migration strategy, containerizing 15+ applications using Docker and Kubernetes
- Modernized legacy systems by migrating from Windows to Linux, improving system performance by 35%
- Established DevOps practices and automation, reducing system downtime by 40% and deployment time by 80%
- Managed product portfolio generating \$5M+ in annual revenue: BehNama, BehKhan (LPR), BehSima
- Implemented ZeroMQ for high-performance communication, handling 1M+ messages per second

Behpooyesh

Tehran, Iran

CHIEF TECHNOLOGY OFFICER

Mar. 2016 - Sep. 2016

- Promoted to CTO after demonstrating strong technical leadership and team management skills
- Oversaw four product lines: BehNama (video surveillance), BehKhan (LPR), BehSima (digital signage), BehYaab (GIS)
- Led strategic technology decisions and product roadmap planning
- Managed cross-functional teams and coordinated product development efforts

Behpooyesh

Tehran, Iran

TEAM LEADER & SENIOR AI ENGINEER

Sep. 2015 - Mar. 2016

- Promoted to Team Leader, managing 6-member development team
- Led technical architecture and product roadmap for BehKhan (LPR) system
- Mentored junior developers and established development best practices
- Coordinated product development across multiple teams and projects

Behpooyesh

SOFTWARE DEVELOPER & AI ENGINEER

Tehran, Iran
Jun. 2012 - Sep. 2015

- Primary contributor to BehKhan (LPR): rewrote core system from C# to C++, achieving real-time 25 FPS processing
- Implemented Caffe deep learning framework, improving recognition accuracy and system robustness
- Designed multithreading pipeline architecture for high-throughput video processing
- Migrated database from Oracle to MS SQL Server, achieving improved performance and reliability
- Successfully transitioned LPR project from Fanap to Behpooyesh, ensuring seamless product continuity
- Contributed to team growth from 2 to 20+ employees across 4 different products

Fanap (ITS Division)

SOFTWARE DEVELOPER & AI ENGINEER

Tehran, Iran
Jun. 2011 - Jun. 2012

- Developed first version of License Plate Recognition (LPR) system using C# and AForge.NET
- Implemented computer vision algorithms for plate detection and character recognition
- Migrated from AForge.NET to OpenCV for enhanced image processing capabilities
- Trained plate detection model using OpenCV cascade classifier
- Developed and trained CNN model, achieving 99% accuracy in plate recognition
- Collaborated with small team to deliver innovative AI-powered solutions

Skills

Leadership & Management

Strategic Planning, Team Building, Budget Management, Agile/Scrum, Product Management, Team Motivation, Performance Management, Career Development, Risk Management, Decision Making

Cloud & DevOps

AWS, Kubernetes, Docker, Jenkins, CI/CD, Terraform, Infrastructure as Code (IaC), Linux, Prometheus, Grafana

Architecture & Systems

Microservices, System Design, Distributed Systems, Enterprise Architecture, API Design, Event-driven Architecture, Multi-SaaS

Programming Languages

C++, C#, Golang, Java, PHP, Python, SQL

AI & Computer Vision

OpenCV, AForge.NET, Caffe, YOLO v4/v5, CNN, Deep Learning, NVIDIA Jetson, Machine Learning

Backend & Databases

PostgreSQL, MS SQL Server, Oracle, MySQL, Redis, MongoDB

Testing & Quality

Unit Testing, Integration Testing, End-to-End Testing, Test Automation, Code Quality, Performance Testing

Integration & Services

Stripe, Chargebee, Auth0, Temporal, ZeroMQ, GitHub, CDN Services, RESTful APIs

Education

Islamic Azad University

M.Sc. IN COMPUTER ENGINEERING - ARTIFICIAL INTELLIGENCE

Tehran, Iran
2009 - 2012

Islamic Azad University

B.Sc. IN COMPUTER ENGINEERING - SOFTWARE

Lahijan, Iran
2001 - 2006