

AMIN PARVA

AI/ML and Software Lead

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PROFESSIONAL SUMMARY

Visionary AI/ML and Software Lead with 15+ years of executive leadership experience driving digital transformation through cutting-edge artificial intelligence solutions. Currently spearheading next-generation athlete performance analytics and predictive modeling initiatives at Athlete Management Technologies. **Specialized in transforming traditional agile development teams into AI agent-powered organizations**, implementing modern software methodologies that leverage AI agents for enhanced productivity, code quality, and innovation. Recognized expert in architecting enterprise-scale AI systems, leading high-performance technical teams, and delivering innovative ML solutions that drive business growth. **Unique combination of deep technical architecture expertise (ML and traditional software) with proven ability to modernize team structures and development processes.** Proven track record of building and scaling AI/ML capabilities across healthcare, sports technology, and enterprise software domains while mentoring technical leaders and driving strategic technology initiatives.

TECHNICAL SKILLS

AI/ML & Data Science	PyTorch, TensorFlow, TensorFlow Lite, Scikit-learn, Pandas, NumPy, SciPy, Matplotlib, Seaborn, Supervised/Unsupervised Learning, Pattern Recognition, Data Collection, Model Training, Predictive Analytics, Neural Networks, Deep Learning
Programming Languages	Python, C#, C++, Java, VB.NET, JavaScript, TypeScript, HTML5, CSS3, SASS, SQL, MUMPS
Mobile & Web Development	Flask APIs, React, Next.js, Angular.js, Backbone.js, Django, Flutter, .NET 9, ASP.NET MVC, Web Forms, API Development, SPA Architecture, Mobile App Development
Cloud & DevOps	AWS (SageMaker, App Runner, EC2, S3, ECR), Azure, Docker, GitHub Actions, CI/CD Pipelines, Cloud Computing, Containerization, Model Deployment
Sensors & IoT	Accelerometer, Gyroscope, Motion Detection, Sensor Data Processing, Real-time Data Collection, Movement Analysis, IoT Integration, Time Series Analysis
Databases & Integration	Oracle, SQL Server, MySQL, SQLite3, Snowflake, Intersystems Cache, HL7, Healthcare Systems, Clinical Analyzers, Middleware Integration, Sitecore CMS, DreamFactory API, JSON, RESTful APIs
AI Tools & Leadership	Cursor AI, AI Agent Integration, MLOps, Technical Leadership, Strategic Planning, Cross-functional Team Management, Agile/Scrum Master, Technical Mentoring, AI-Powered Development Methodologies

PROFESSIONAL EXPERIENCE

AI/ML and Software Lead | Athlete Management Technologies | Feb 2025 - Present

AI/ML Engineering Lead specializing in athlete performance analytics and predictive modeling

• **Data Collection & Pattern Discovery:** Responsible for comprehensive data collection and discovering patterns for both supervised and unsupervised learning, training models using Python libraries including PyTorch and other ML frameworks

- **AI Agent Integration:** Working extensively with AI agents in Cursor IDE to enhance development productivity and implement cutting-edge software methodologies
- **Model Deployment Architecture:** Building and designing applications for consuming TensorFlow and TensorFlow Lite models with Flask APIs and client applications
- **Multi-Platform Application Development:** Developed FirePod ecosystem containing Coach App and Athlete App that captures athlete data using accelerometer and gyroscope sensors for motion detection and movement analysis
- **DevOps & CI/CD Pipeline:** Creating comprehensive CI/CD pipeline with GitHub Actions and Docker containerization, pushing images to AWS ECR and building AWS App Runner services to serve ML models
- **Full Pipeline Design:** Designing and implementing complete end-to-end ML pipeline with AI agent assistance, gathering requirements from Product Owner and development team
- **Sensor Data Processing:** Specialized in processing real-time sensor data from accelerometer and gyroscope sensors for advanced motion detection and athletic performance analysis

Senior Technical Lead & Engineering Executive | Antech Diagnostics (Mars Inc.) | Oct 2015 - Nov 2024

Executive leadership of enterprise healthcare technology transformation and digital innovation initiatives

- Orchestrated digital transformation strategy, leading 15+ enterprise-scale projects serving 5,000+ healthcare clients and generating \$50M+ in revenue impact
- Evolved from Senior Software Engineer to Senior Technical Lead, establishing technical excellence standards and innovation frameworks across global engineering teams
- Led organizational change management initiatives during Mars acquisition, successfully integrating 200+ technical professionals and maintaining 99.9% system uptime
- Established Center of Excellence for AI/ML adoption in healthcare, mentoring 25+ technical leaders and implementing data-driven decision making culture
- Drove strategic technology partnerships and vendor management, reducing operational costs by 30% while improving system performance by 200%
- Presented technology roadmaps and innovation strategies to C-suite executives, securing \$15M+ in technology investment approvals

Technical Lead & Engineering Manager | Technijian | Jan 2015 - Oct 2015

Executive leadership of enterprise software architecture and global development team management

- Led strategic technology initiatives, successfully delivering 2 enterprise-scale projects worth \$5M+ in client value and establishing market leadership position
- Architected next-generation n-tier software platform for clientportal.technijian.com, serving 10,000+ enterprise users and improving operational efficiency by 150%
- Established comprehensive security and compliance framework, achieving SOC 2 certification and reducing security incidents by 100%
- Built and managed global development teams across India and US, implementing agile methodologies and establishing technical excellence standards
- Drove digital marketing transformation through SEO optimization, increasing web traffic by 300% and generating \$2M+ in new business opportunities
- Presented technology strategy to board members, securing approval for \$3M+ technology investment and expansion initiatives

Lead & Co-Founder | ParvaGroup | July 2008 - Nov 2014

Founding leadership of technology startup, driving innovation and market expansion

- Co-founded and scaled technology startup from concept to market leader, growing team from 2 to 12 professionals and achieving \$2M+ in annual revenue
- Led strategic market expansion, delivering 75+ enterprise web applications and establishing market dominance in regional technology sector
- Established comprehensive project management and quality assurance frameworks, achieving 100% client satisfaction and 98% on-time delivery rate

- Drove strategic partnerships and business development initiatives, securing long-term contracts with 25+ enterprise clients and generating \$5M+ in total contract value
- Built high-performance technical teams and established company culture focused on innovation, excellence, and client success
- Presented business strategy and growth plans to investors and stakeholders, securing \$500K+ in funding and strategic partnerships

SPECIALIZED EXPERTISE

Agile-to-AI Team Transformation

Expert in modernizing traditional agile development teams into AI agent-powered organizations.

Specialized in implementing cutting-edge software methodologies that integrate AI agents (like Cursor AI) into development workflows, resulting in:

- **150% increase in team productivity** through AI-assisted code generation and testing
- **90% reduction in manual data processing** via intelligent automation
- **Enhanced code quality and consistency** through AI-powered code review and optimization
- **Faster time-to-market** with AI-accelerated development cycles
- **Modern software architecture** designed for both traditional and ML/AI applications

Technical Leadership: Deep expertise in software architecture and design across both traditional enterprise systems and cutting-edge ML/AI platforms. Proven ability to bridge the gap between legacy systems and modern AI-powered development environments while maintaining technical excellence and team productivity.

CERTIFICATIONS

- Scrum Master | LinkedIn Learning | 2024
- Leadership Fundamentals | LinkedIn Learning | 2024
- Management in Organization | LinkedIn Learning | 2024
- Advanced C# | LinkedIn Learning | 2024

AWARDS

- **Antech Tax Benefits Reward** for High Performance Employees | 2024

EDUCATION

Bachelor of Science in Electrical Engineering

Azad University, Bushehr, Iran | 2003 - 2008

ADDITIONAL INFORMATION

- Languages: English (Fluent), Persian (Native)
- Work Authorization: US Citizen
- Availability: Open to relocation and remote work
- Industry Experience: Healthcare Technology, Sports Analytics, Enterprise Software, AI/ML