

Hands-on Fullstack Developer/ Dev-ops / Solution Architect 10+ years experienced.

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ABOUT ME

LinkedIn:

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NPM:

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GitHub:

https://github.com/babakzarrinbal

GitLab:

https://gitlab.com/bzarrinbal

Hands on Devops 6 years, Development 10+ years

Titles: Teamlead / Lead developer / dev-ops Lead / Solution Architect / Technical Mng

Responsibilities: Design / Implementations / Team building / Mentoring

Domains: Telecom / Fintech / Commercials / Startups / Insurance / security

Personality: self-Growing / Team Worker / Energetic / efficient / on point

Quotes: Truth is Knowledge, Work is life, Growth comes from within self,

Team sent man to moon

TECHNOLOGIES

AI SERVICES

- LLMs: LLaMA, LLaVA (text + vision), Mistral 7B, OpenAl GPT APIs, Google Gemini
- RAG & Vector Search: FAISS, Milvus, Weaviate, Pinecone; Recursive reasoning / agentic workflows
- Fine-tuning & Custom Training: PEFT/LoRA, HuggingFace Transformers, custom embeddings, domain-specific adaptation
- Speech & Audio: TTS & STT (Whisper, Coqui, NVIDIA NeMo, Vosk, Silero, ElevenLabs API)
- Vision / Simulation: NVIDIA Isaac Sim / Omniverse, NVIDIA James (visual simulations), YOLOv8/Detectron2 for CV tasks
- Custom Al Models: Identity & location matching, vector similarity, recommender systems
- Al Orchestration: LangChain, LlamaIndex, Haystack, Semantic Kernel
- Al Deployment: FastAPI, Flask, Triton Inference Server, TensorRT, ONNX Runtime, TorchServe

Infrastructure

- CI/CD: Jenkins, GitHub Actions, GitLab CI, CircleCI, Azure DevOps Pipelines
- Infrastructure as Code (IaC): Terraform (+4y), Ansible (+2y), Packer (+2y), RancherOS (+3y), Crossplane, Pulumi (basic)
- Kubernetes (+5y): Helm, HPA, KEDA, Karpenter, ArgoCD, External Secrets Operator (ESO), Velero, Kyverno, Service Mesh (Istio/Linkerd)
- Containers: Docker (+7y) Multi-stage builds, Buildx, caching optimizations, OCI standards, containerd
- Monitoring & Observability: Prometheus, Grafana, Loki, Tempo, Datadog, ELK/EFK, OpenTelemetry, Metric exporters
- GitOps: ArgoCD, FluxCD

Cloud Platforms

- AWS (+6y): EKS, ECR, EC2, IAM, Lambda, Fargate, VPC, API Gateway, CloudFront, S3, DynamoDB, CloudWatch, Step Functions, SAM, CDK
- Google Cloud (+3y): GKE, GAR, GCR, IAM, Secrets Manager, Service Accounts, Cloud Functions, Cloud Run, Pub/Sub, BigQuery
- Azure (+3y): Azure DevOps, AKS, ACR, Vault, VMs, Functions, App Service, Managed Identities, Service Bus, Event Grid
- Oracle Cloud (+2y): OCI (Compute, Networking, IAM), Oracle DB
- Other Cloud/Infra: DigitalOcean, Linode, Hetzner, Vercel, Netlify, Cloudflare Workers / KV / D1

Platforms

- Applications: Cloud services, Linux containerized apps, Web Apps, Electron, React Native, Mobile apps (Android/iOS basics)
- Extensions: Chrome Extensions, VS Code Extensions, Browser DevTools
- **Dev Tooling**: Makefiles, Shell scripting, Automation pipelines

Languages

- JavaScript (12y) & TypeScript (4y)
 - Frameworks: Node.js, NestJS, Express.js, Fastify, Next.js, React.js, Vue.js, Nuxt.js, Svelte, AngularJS, Angular 12+
 - Other: GraphQL, REST APIs, CLI tools, WebSockets (Socket.IO)
- Python (4y): Django, Flask, FastAPI, ML frameworks (PyTorch, TensorFlow, HuggingFace, LangChain)
- Bash (5y): Advanced automation, CI/CD scripting
- Java (2y): Spring Boot, Hibernate, Maven, JUnit
- Golang (1y): Gin, concurrency patterns, microservices
- PHP (4y): Laravel, Drupal, WordPress, Joomla
- Others (basic): C/C++, Rust (intro-level)

Databases

- SQL: PostgreSQL, MySQL, MariaDB, SQLite, SQL Server, Oracle DB
- NoSQL: MongoDB, Cassandra, DynamoDb
- Caches: Redis, Memcached
- Search: Elasticsearch, OpenSearch

Message Brokers / Cache

RabbitMQ, Kafka, AWS SNS/SQS, Google Pub/Sub, Azure Service Bus/Event Grid, MQTT

Speaking Languages:

- English (Fluent) has been working with international teams since 2008.
- Persian (Native), my mother tongue
- German (A2), in process of learning

WORK HISTORY

DOUGLAS INTERNATIONAL (March 2025 – Present)

As a **hands-on DevOps Engineer / Cloud Architect / Infrastructure Innovator**, I fuel and scale the company's infrastructure workloads across multi-cloud environments while pioneering **AI-driven approaches** to improve automation, resilience, and efficiency. I work closely with developers, DevOps engineers, and business stakeholders to design, deploy, and monitor enterprise-grade solutions.

- Key Achievements:
 - Designed and optimized **pipeline orchestration** that reduced VM pipeline usage costs by **35%**
 and improved overall build/deployment speed by **40%**.
 - Introduced **Al-assisted monitoring and anomaly detection**, reducing mean-time-to-resolution (MTTR) by **30%**.
 - Automated multi-cloud IAM and secret rotation workflows, improving compliance and cutting manual overhead by **50%**.
- o Technologies:
 - Kubernetes / Docker / Helm / Karpenter / KEDA / ArgoCD / ESO / Velero / Kyverno
 - CI/CD: Azure DevOps Pipelines, GitHub Actions, GitLab CI/CD, Jenkins (advanced YAML templating & automation scripting)
 - Cloud: Google Cloud (GKE, GAR, IAM, Secret Manager, Cloud Run, Pub/Sub), AWS (EKS, ECR, Lambda, S3, VPC, DynamoDB, CloudFront), Azure (AKS, ACR, Vault, VMs, Functions), Oracle OCI
 - Monitoring: Grafana, Prometheus, Loki, Tempo, Datadog, OpenTelemetry, custom exporters
 - Al Integration: RAG for operational knowledge, LLM-assisted automation, predictive scaling
 - Automation & Languages: Node.js, Python (FastAPI, Flask, ML integrations), Bash, Golang
 - Messaging & Data: Kafka, RabbitMQ, Redis, Memcached
 - Databases: PostgreSQL, MySQL, Cassandra, MongoDB, Oracle DB
 - Security & Governance: IAM, secret rotation, GitOps-based compliance, Kyverno policies
 - Other Tools: Terraform, Ansible, Packer, RancherOS, Crossplane, Cloudflare, Akamai

MANAGBL.AI: (July 2024 – March 2025)

As a hands-on Team lead/Devops/developer I Mentor and lead and work together with my teammates to introduce features or improve existing ones on our AI agents technologies included:

- o Key Achievements:
 - Optimized infrastructure by leveraging **AWS Spot Instances**, cutting compute costs by **45%** while maintaining high availability.
 - Implemented advanced **RAG-based AI agents** with Whisper (STT) and Coqui (TTS), enabling faster iteration on client-facing features.
 - Enhanced system reliability and monitoring, reducing downtime incidents by **30%.**
- o Technologies:
 - Kubernetes / Docker / EKS
 - AI: LLM with RAG, STT with Whisper, TTS with Cogui TTS
 - Languages: Python, Bash, Node.js
 - Frontend: React.js
 - CI/CD: GitLab Workflow, GitHub Actions, Terraform, Bash automation
 - Monitoring: Grafana, Prometheus
 - Logging: Elasticsearch, Logstash, Kibana
 - Cloud: AWS (CLI, EKS, ECS, EC2, S3, Lambda, DynamoDB)
 - Databases: MongoDB, MySQL
 - Messaging & Caching: Redis, RabbitMQ

• Retraced: (Feb 2022- July 2024)

As a hands-on **technical manager/team lead** I teach, guide, and work alongside my teammates to reach the goals of the platform which is vary.

technologies included:

- o Key Achievements:
 - Improved deployment pipelines and infrastructure, reducing release times by **30%** and ensuring faster delivery to production.
 - Implemented advanced monitoring with DataDog, reducing production incident detection time by **40%** and downtime by **25%. **
 - Optimized cloud resource usage on AWS/OCI, achieving **20% cost savings** without impacting system reliability.
- Technologies:
 - Node.js Microservices, React.js frontend
 - CI/CD: CircleCI, GitHub Actions, Terraform
 - Monitoring: DataDog
 - Cloud: AWS (ECS, EC2, S3, EKS), Oracle (OCI, ML, DB)
 - Messaging: RabbitMQ
 - Containers & Orchestration: Docker, Kubernetes, GitHub Actions

• Tecnotree: (Sep 2016-Feb 2022)

As a **Technical Manager** I've managed 3 teams regarding development and maintenance of multiple (more then 70) services to ensure delivery of 3 main telecommunication projects in here I've managed, created, educated and guided new teams, and implemented the one man do it all approach on all the scenarios and proud to say I have guided almost 10+ people from junior seniority skills Technologies included:

- Key Achievements:
 - Reduced project delivery timelines by **25%** through streamlined CI/CD pipelines and agile team coordination.
 - Optimized service architectures, reducing infrastructure costs by **20%** across Kubernetes/Rancher deployments.
 - Increased system uptime and stability, cutting customer-reported issues by **35%** through improved observability and proactive monitoring.

Technologies:

- Docker, Kubernetes, Rancher
- Node.js, Python, Bash, Golang (Gin), Spring Boot, Hadoop
- Databases: Cassandra, MongoDB, MySQL
- Messaging: Kafka, RabbitMQ
- Frontend: React, Vue, AngularJS
- CI/CD: Jenkins
- Cloud: AWS, Google Cloud Services

Diliviri/Eposense: (Sep 2015-Sep 2016)

As **Team Lead and senior full stack** developer I developed and improved existing parts of the whole ecosystem of the Diliviri (app for deliver goods with hired/outsourced driver and vehicles). I added multiple apps as well as improvement in followings ...

- Changed monolithic Admin app to microservice architect (Efficiency +400%)
- Converted Driver & Supervisor Native apps for IOS, Android to PWA apps (Development costs -60%)
- Created complex Multi routing algorithms for concurrent deliveries with one driver (profit avg +50%)
- Kick started standalone routing (in map) and tile Api server for completely free of charge map view and routing (map costs -100%)
- Created CI/CD procedure to ensure code health and faster integration for testing and deployment (DevUp costs -70%)
- Creating/modifying and managing 6 apps under the whole product ...

Rahpooyan: (Mar 2013-Sep 2015)

As **full stack** developer I developed and kickstarted and multiple products based on multiple customer needs and descriptions.

- Easybimeh.com (front-end) Improving system for example adding lazy loading and breaking services for better user experience (Efficiency +40%)
- Wow.kanoon.ir (full stack) create and deploy full featured learning app to teach/test and give certificate for English learning (Creating revenue)
- Visit24.ir (full stack) create and deploy 4 different parts whole startup to kickstart it and created the development team and mentored them to continue the work (Creating revenue)
- Review (full stack) creation and deployment of video clip audio extraction and translation plus online subtitle creation (Creating revenue)
- Choqok (full stack) creation and deployment of pdf modification and content adding system for teachers/ reviewers/ experts/ students (Creating revenue)
- Multiple Crawlers for extracting information from different sites and Api for creating datasets and using them in different projects. (Creating revenue)
- Apanajh (front-end) creating front end for Apanajh social media startup and create and mentor front-end team for them ... (Creating revenue)
- Multiple sites and application for various use cases

Freelance Jobs /ISIRAN: (2012 to 2013)

A Lot of front-end / full-stack project that I've done in that period mainly done with php/Laravel MySQL and VueJs AngularJs and some with Drupal, and after a while I got hired in ISIRAN and this was my first full time development job

• Atlas-Offshore, Knauf Iran: (2008 to 2013)

I worked as project planner / controller in mostly gas and oil projects , sometimes as team managers and leaders. I Developed a lot of features and mini apps to perform their tasks and automate them , at some point I developed a whole reporting system that decreased the cost of procedure and man/hour about 50%

EDUCATIONS AND SKILLS

- University: B.A. of Industrial Eng. from University of science and culture (Tehran, Iran)
- Aws courses, hours of online trainings
- · Project management courses for MBA
- financial management courses
- Project planning and control courses