

Amer A Qresh

Full-Stack & AI Engineer

ameraqresh@gmail.com | Village Dr, Edison, NJ 08817, USA | github.com/amar-a-qresh | github.com/amar-a-qresh

PROFESSIONAL SUMMARY

A cross-cutting specialization layered on top of Python, Rails and Node backends: LLM integrations, RAG pipelines, multi-agent orchestration, vector/semantic search and AI-driven analytics, shipped into real production products.

TECHNICAL SKILLS

Core Backend: Ruby on Rails 6/7, Ruby 3.x, ActiveRecord, ActionCable, ActionMailer, Sidekiq, Resque, Devise, Pundit

Frontend: JavaScript (ES6+), TypeScript, React.js, Next.js, Vue.js, Nuxt.js, Svelte, PWAs, Tailwind CSS, HTML5 / CSS3

ML / AI: TensorFlow, Python ML pipelines, LangChain, LlamaIndex, OpenAI GPT-4, RAG pipelines

LLMs / APIs: OpenAI API (GPT-4), OpenAI Whisper, ChatGPT integration

CI/CD: GitHub Actions, CircleCI, Capistrano, Vercel, Netlify, Heroku

Databases: PostgreSQL, MySQL, MongoDB, Redis, Schema design & query optimization

Cloud / DevOps: AWS (EC2, S3, RDS, Lambda, CloudFront, VPC), Docker, Kubernetes, GitHub Actions, CircleCI, Heroku, Capistrano

Vector / Search: pgvector semantic search, Vector search, PostGIS-driven recommendations

Testing: RSpec, FactoryBot, Capybara, SimpleCov, VCR, Minitest, TDD / BDD (90%+ coverage)

Data / BI: Snowflake, Streamlit, ETL Pipelines, pgvector, PostGIS, High-Volume Optimization, Predictive Analytics

Web3: Web3, DApps, Blockchain, Smart Contracts

PROFESSIONAL EXPERIENCE

Stack360 — Senior Full Stack Developer

Sep 2020 – Apr 2022

- Built full-stack apps with React, Vue.js, JavaScript and Ruby on Rails.
- Redesigned the reporting module to Rails best practices: +25% performance and maintainability.
- Introduced automated testing frameworks to reduce regressions.

Kinectro — Web Developer

Apr 2018 – Mar 2021 • Pakistan

- Built and maintained web apps with REST APIs and third-party integrations; Git, Heroku, Redis, EC2.

TechCreatix — Senior Software Engineer

Mar 2021 – Sep 2021 • Lahore

- Delivered full-stack JavaScript features in an Agile team with CI/CD and code reviews.

Fiverr (Freelance) — Full Stack Web Developer

Apr 2019 – Jul 2020

- Built full-stack apps with Django, Node.js and Ruby on Rails.
- Delivered a Facebook Ads tool with the Marketing + Graph API.

Tkxel / Strategic Systems International — AI/ML Engineer (cross-role)

2021 – 2025

- Integrated ML models for predictive analytics and AI-driven decision-making into existing systems.
- Integrated LLM/AI solutions into existing platforms collaborating with cross-functional teams.

PROJECTS

Frosty Metrics — Crypto Analytics Platform — Full-Stack Engineer

Tech: Node.js, Python, React, Next.js, PostgreSQL, Redis, Docker, Kubernetes, AWS, WebSockets, GraphQL, LLM
<https://frostymetrics.com>

- Built the Node.js frontend and services portion of a real-time crypto analytics platform.

GoZupees — AI Call Center — AI Engineer

Tech: OpenAI GPT-4, pgvector RAG, WebSockets

- WebSocket GenAI suggestions at 1–2s latency; OpenAI GPT-4 + pgvector RAG.
- Live call transcription.

GoZupees — AI Call Center Platform — Full-Stack Engineer

Tech: Python (FastAPI), PostgreSQL (pgvector), OpenAI GPT-4, LangChain, SQLAlchemy, Twilio, WebSockets, React, TypeScript, Docker, AWS

- Real-time AI call center management platform; WebSocket-based AI suggestions at 1–2s latency (OpenAI GPT + pgvector RAG).
- Structured agent/ticket management with full CRUD REST APIs (FastAPI + SQLAlchemy).
- Twilio WhatsApp, live call transcription and Stripe subscription management.
- Docker on AWS with CI/CD via GitHub Actions.

GozuPees — SaaS Automation & Service Marketplace — Full-Stack Developer

Tech: Ruby on Rails, Multi-Tenant, Payments, Automation

- Multi-tenant SaaS marketplace with automation workflows, service orchestration and role-based systems.
- Payment and third-party integrations across the platform.

GoZupees — AI Call Center (Frontend) — Frontend Engineer

Tech: React, TypeScript, Tailwind

- Built the React/TypeScript frontend over a FastAPI backend for a real-time AI call center.

Genie AI — AI Recommendations — AI Engineer

Tech: LangChain, RAG, PostGIS

- LangChain LLM integration + RAG-based personalization over PostGIS data.

Genie AI — Location-Based Social Discovery — Backend Engineer

Tech: Python (FastAPI), PostgreSQL (PostGIS), LangChain, OpenAI API, Redis, RabbitMQ, Docker, Auth0, SQLAlchemy
<https://geniegetsme.com>

- Scalable location-based discovery APIs with PostGIS analytics.
- Real-time chat via WebSockets; RabbitMQ event messaging.
- AI-powered recommendations (LangChain LLM + RAG personalization).
- Auth0 auth and Redis caching supporting thousands of concurrent users.

SoloSuit — Debt Resolution Platform — Senior Software Engineer

Tech: React, Node.js, Playwright, Plaid, Bloom API

<https://solosuit.com>

- Led integration of Plaid + Bloom into the platform.
- Introduced Playwright testing from scratch for critical debt-law workflows; delivered features and bug fixes for platform stability.

The Tie — ChatGPT-Powered Financial Analysis — AI Engineer

Tech: ChatGPT, Ruby on Rails, Vue.js

- Real-time market insights with ChatGPT integration.

TribeAWL — Medical Spa SaaS Platform — Full-Stack Engineer

Tech: React.js, Tailwind, Ruby on Rails, PostgreSQL, WebSockets, Stripe, Tilled, Active Storage

- Multi-tenant SaaS: client/staff management, appointment booking, inventory tracking, role-based portals and real-time notifications.
- Stripe + Tilled PCI-compliant payments; Twilio SMS and in-app chat via WebSockets.

Frosty Metrics — AI-Driven Predictive Analytics — AI / ML Engineer

Tech: Python ML pipelines, LLM

- Python ML pipelines + LLM integration for crypto predictive analytics.

Frosty Metrics — Crypto Analytics Platform — Full-Stack Engineer

Tech: Node.js, Python (Django, ML), React, Next.js, PostgreSQL, Redis, Docker, Kubernetes, AWS, WebSockets, GraphQL, LLM

<https://frostymetrics.com/dashboard>

- High-performance real-time crypto analytics: token tracking, historical data viz and AI-driven predictive analytics via Python ML pipelines.
- Scalable microservices, real-time data pipelines and containerized cloud deploys handling large transaction volumes; secure GraphQL APIs.

Blockchain Explorer + Token Management — Full-Stack Engineer

Tech: Rails 5, React, Elasticsearch, Pundit

- 80,000+ MAU wallets across 14 countries; Elasticsearch search 7x faster.
- Pundit RBAC and full audit logging.

AI-Powered Call Center SaaS — AI / Backend Engineer

Tech: OpenAI Whisper, RAG (pgvector), Rails + FastAPI

- OpenAI Whisper live transcription + RAG pipeline (pgvector) at sub-300ms retrieval.
- Rails + FastAPI hybrid.

Blockchain Explorer + Token Management — Full-Stack Engineer

Tech: Rails 5, React, Elasticsearch, Pundit, Web3

- 80,000+ MAU wallets across 14 countries; on-chain webhook/event notifications (sub-500ms).
- Elasticsearch tx search 7x faster; Pundit RBAC + audit logging.

MicroHealth — AI & RAG-Based Knowledge Platform — Senior Software Engineer (Full-Stack / Backend)

Tech: Python (FastAPI/Django), PostgreSQL (pgvector), OpenAI GPT-4, LangChain, LlamaIndex, Azure, Vue.js, Streamlit

- End-to-end RAG-powered intelligent document search for healthcare data.
- Scalable Django/FastAPI ingestion pipelines with pgvector semantic search.
- Streamlit dashboards for admin analytics and model-performance monitoring.
- Iterated on relevance, latency and quality against real clinical user needs.

The Tie — Financial Data & Analytics Platform — Full-Stack Engineer

Tech: Ruby on Rails, Vue.js, ChatGPT, Auth0, PostgreSQL, Docker, AWS

<https://thetie.io>

- Real-time financial analytics with AI-driven market insights and ChatGPT integration.
- Secure Auth0 authentication; scalable backend with a responsive Vue.js frontend.

EDUCATION

The George Washington University Software Engineering & Information Systems Management (2011-2013)

CERTIFICATIONS

- AWS Certified Solutions Architect Associate
- Certified Web Developer
- English: C2 Proficient