Contact

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www.linkedin.com/in/harout-itology (LinkedIn)
www.upwork.com/freelancers/~01c6e509a9c93b6386 (Portfolio)

Top Skills

Mentoring
Team Leadership
Amazon Bedrock

Languages

English (Native or Bilingual)

Harotioun Kouja Oghlanian

Lead AI Engineer | LLM Agents in Production · MCP · Tool Orchestration · AWS Bedrock | Software Architect | 15+ Years Delivering Production Software
Yerevan, Yerevan, Armenia

Summary

Lead AI Engineer and Software Architect with 15+ years of delivering and operating production software, now focused on designing and shipping LLM-based agents to production.I lead solution design across the full agent stack: execution, memory and context management, tool integration via MCP, identity and permissions, and observability. I also build the prototypes and production components myself and take them through testing and deployment.What I bring:• Agent architecture: LLM agents, tool orchestration, MCP servers, long-running workflows with state management• LLM gateway & cost control: model routing, quotas, fallbacks and usage monitoring• Cloud AI platforms: AWS Bedrock and LLM APIs (OpenAI / Anthropic), covering identity, integration and monitoring• Quality & evaluation: agent evaluation, automated testing, CI/CD quality gates and release criteria• Security: least-privilege tool permissions, approval steps, audit logs, code and security reviews of AI-generated code• Leadership: solution design with customers, comparing alternatives and trade-offs, delivery planning, mentoring, technical interviewsStack: Python, PHP, REST APIs, MySQL, Docker, AWS, CI/CD

Experience

ITology Software Architecture
Lead AI Engineer & Software Architect
December 2023 - Present (3 years)
Yerevan, Yerevan, Armenia

Lead the design and delivery of LLM-based agent solutions for clients, from requirements to production.

• Agent solution design: Translate client needs into clear requirements, compare architectural alternatives, and explain the business and technical reasons for the chosen approach.

• Production AI agents: Build and ship LLM agents to production, covering tool calling, memory and context management, and state handling for long-running workflows.

• MCP & tool integration: Design and build MCP servers and tool integrations connecting agents to internal APIs, databases, and third-party services, with clear permissions and audit logging.

• LLM gateway & cost control: Implement model routing, tiering, quotas and fallbacks to control cost and keep agents reliable.

• Cloud AI hosting: Deploy AI workloads on AWS (Bedrock) with secure identity, secrets management, and monitoring.

• Evaluation & release quality: Set up agent evaluation, automated tests and CI/CD quality gates, with staged rollout and rollback.

• AI development governance: Define rules for AI coding tools (data access, permissions, mandatory review and verification) and enforce them through code reviews, automated testing, and security audits.

• Technical leadership: Plan delivery, break work into milestones, run design reviews and guide engineers and contractors on unfamiliar tools.

Portfolio: https://www.upwork.com/freelancers/~01c6e509a9c93b6386

Enke Systems

Lead Software Engineer

January 2023 - December 2023 (1 year)

United States

https://enkesystems.com

• Technical leadership: Led a team of engineers, owning delivery planning, task breakdown, delegation and removing blockers.
• Architecture: Designed and oversaw the structure of complex software systems, making high-level design decisions against technical and business requirements.
• Engineering standards: Defined coding standards and ran design and code reviews to keep quality and consistency across the team.

• Testing & CI/CD: Improved automated testing and CI/CD practices to make releases faster and more reliable.
• Hiring & mentoring: Ran technical interviews, onboarded new engineers and mentored developers.
• Stakeholders: Led technical discussions with US-based stakeholders on scope, priorities, risks and trade-offs.

ABOUT YOU AG & Co. KG
Senior Backend Developer
August 2021 - January 2023 (1 year 6 months)
Hamburg, Germany

https://aboutyou.de
Working in Cloud Agency on AboutYou project middlewares

Spacetab
Senior Software Engineer
February 2021 - August 2021 (7 months)
Armenia

https://www.spacetab.tech
Create Rest API and DB structures.
working with Laravel, MySql and Vue js to create a new booking system for all kinds of services.

VivaCell-MTS
Senior FullStack Developer
April 2019 - February 2021 (1 year 11 months)
Yerevan, Armenia

https://www.mts.am
Create RestAPI for MTS company HR department.
working with Laravel, MySql and Vue js to create a new platform for all internal needs of the employment cycles

Upwork
Fullstack Developer
July 2016 - April 2019 (2 years 10 months)
Yerevan, Armenia

https://www.upwork.com/freelancers/~01c6e509a9c93b6386
Create Magento plugins for the US and Australian market
fullstack develop Magento projects from preparing AWS with all needs to add self-created plugins

Yes Yem Yech Manufacturing and Industrial Services Company (SMH)

PHP Developer

April 2014 - July 2016 (2 years 4 months)

Al-Jubial Governorate, Saudi Arabia

http://www.smharabia.com/

Create RestAPI for SABIC company planning department.

validate and save data in the DB then return with the calculated data based on the core logic of the ERP system

Naba International

PHP Developer

March 2010 - April 2014 (4 years 2 months)

Al Khubar, Eastern, Saudi Arabia

https://alnaba.com

Create PHP CMS projects for NABA Agency private clients.

DB structure design for each client business special needs

Education

Yerevan State University

Bachelor Degree, Information Science and Applicative Mathematics · (2005 - 2009)

University of Michigan

Building Database Applications in PHP, MySQL · (2020 - 2020)

The Hong Kong University of Science and Technology

Front-End Web UI Frameworks and Tools: Bootstrap , Bootstrap 4 · (2020 - 2020)

University of Michigan

Building Web Application in PHP, PHP · (2020 - 2020)

University of London

HTML & CSS, HTML , CSS , JavaScript · (2020 - 2020)