Hakan Baybaş

Senior AI/ML Engineer

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AI engineer who thinks out of the box and builds with a product mindset. I build AI/ML systems that ship: retrieval and ranking, agents and evaluation. Today that is the shopping assistant at Rezolve Ai; before that, the multi-agent platform at Writer. I use AI agents every day but own what ships: user stories and behavioural checks tell them how the code must behave, and evals and tests decide when it is done. Behind it are 19 years as a founder, hands-on CTO and team lead, which is why unclear needs, missing pieces and pressure don't surprise me: I see problems early, learn fast and stay calm while solving them.

Skills

AI and ML	LLM evaluation, embeddings, vector search, retrieval and ranking, fine-tuning, learning to rank, intent matching, attribute extraction, vision models, model routing
Agents	Multi-agent orchestration, MCP, sandboxed agent execution, AWS Strands SDK, LangGraph, LangChain; OpenAI, Anthropic and Azure OpenAI APIs
Languages	Python, TypeScript, Node.js, SQL, Swift
Platform	AWS (ECS, Lambda, DynamoDB, S3, SQS, CloudFront), Cloudflare (Workers, Durable Objects, Containers, KV, R2), Docker, Kubernetes, Redis, PostgreSQL, GraphQL, CI/CD
Security and ops	OAuth 2.0, encrypted secrets, ClamAV, rate limiting, OpenTelemetry, Prometheus, Grafana
Product and teams	Tech and team lead, agile sprints, technical roadmaps, 1:1s and mentoring, hiring, cross-functional work with security, DevOps and customer teams

Experience

Senior AI/ML Engineer **Rezolve Ai**

Jun 2026 to present · London

- Design and build an AI shopping assistant end to end: I write the design doc, then build it across the chat service, the catalog enrichment pipeline, shared libraries and deployment config.
- Own the AI/ML behind it: catalog-aware conversation, retrieval and vector search, intent matching, attribute extraction, vision models for product images, and model routing.
- Turn real labels into better models: fine-tuning embedding, extraction and vision models, and learning to rank results from shopper signals.
- Built a knowledge layer that lets merchants author, validate, publish and serve expert shopping knowledge to the assistant and through an API; in blind comparisons the assistant using it was preferred in about two thirds of conversations.
- Ship changes only when an evaluation says they are better (blind LLM judge plus automated checks, about 100 conversations per run): first responses about 30% faster, broken replies from about 7% to zero. 260+ merged PRs in five months.

Staff Software Engineer, Tech Lead **Writer**

Mar 2025 to May 2026 · London

- Tech lead for Agent Deployment, the enterprise multi-agent sandboxed execution platform within Writer's Agent Builder, leading a team of 4.
- Worked on Agent Builder v1 and v2, and led the platform and authentication architecture for v2.
- Architected per-tenant agent execution on Cloudflare Containers and Durable Objects, with MCP OAuth integrations for tools.
- Designed the security layer: decrypt-on-demand encrypted environment variables, ClamAV malware scanning, Redis rate limiting and a DynamoDB partition key strategy.
- Researched multi-agent orchestration, evaluated agent frameworks (AWS Strands SDK) and MCP as a standard tool interface; aligned SecOps, DevOps, customer engineering and solution architects on one design.

Hands-on Frontend Manager (Consultancy) **Decktopus AI**
Aug 2024 to Feb 2025 · Remote

- Led the front-end team building an AI presentation editor on HTML canvas with React, React-Konva and TypeScript, while the old editor kept serving customers.
- Set the technical roadmap with the CTO and planned feature work with product managers and the backend and AI leads.
- Built reusable, editable canvas components (tables, stacks, timelines, charts) and preview and export. The team delivered 90% of planned sprints on time.

Principal Engineer (Consultancy) **Upsolve AI and Barkley AI**
Jun 2024 to Aug 2024 · London

- Upsolve AI: turned a cloud SaaS into a documented, containerised on-premise product for a major customer in two weeks, by making the data layer point at another database instead of rebuilding it.
- Barkley AI: reworked the meeting summary flow with the Azure and OpenAI SDKs to generate summaries and action points from meeting videos, and designed a customisable deployment for client onboarding.

Co-Founder, Hands-on CTO and CEO **Commented**
Jun 2023 to Sep 2024 · London

- Took a collaboration tool for software teams and their clients from idea to product: JS widget, Chrome extension, iOS and React Native SDKs, and AWS infrastructure. Used the OpenAI API for summaries and tone suggestions. Since launch: 3,300+ sign-ups, 800+ active teams, 56,000+ comments on 850+ customer websites.
- Ran a team of 10 with weekly 1:1s and one-week sprints; made three pivots based on customer and sales data.
- Held 40+ investor meetings and 200+ sales, demo and customer success meetings; secured term sheets for a $1M seed round, which did not close.

Founding Engineer, Engineering Manager (Interim, Consultancy) **BermudAir**
Dec 2022 to May 2023 · London

- Interim consultancy, started alongside Karshare: set up the initial work, led a mobile team of 4 and a design team of 2 on React Native apps and a Next.js admin panel, and built the backend that wraps the AERO CRS airline API.

Founding Engineer, then Software Technical Manager **Karshare**
Nov 2019 to Dec 2022 · London

- Took over the product from an outsourcing agency that was failing to deliver; built the native iOS app, the React web app and the admin panel.
- Set up and recruited the product, design and development teams, and introduced agile sprints that helped the company raise money, hit milestones and scale.

Lead Front-End Developer (Consultancy) **Qubit (now Coveo)**
May 2019 to Jan 2020 · London

- Built the new web app from scratch with React and GraphQL, and the Google Cloud Marketplace integration; led the front-end developers.

Co-Founder, CEO and CTO **Logg**
Oct 2017 to Dec 2018 · Izmir

- Built a private life journal for iOS, desktop and web. Featured by Apple as App of the Week and by Product Hunt as App of the Day (2018).

Founder **DIGIEGGS**
Sep 2014 to Apr 2018 · Izmir

- Founded a software company that delivered bespoke web and mobile apps for 15 clients and 20+ projects, including Yaşar Holding, Eczacıbaşı and Decktopus; launched our own revenue-earning products.
- Hired and trained junior developers as the team grew to between 10 and 20 people; many went on to lead teams.

Earlier career
2007 to 2015 · Izmir

- SAP certified consultant (CRM, PPM, BW and ABAP) for Yaşar Holding's companies, and software engineer before that.

Certifications and education

AWS Certified Solutions Architect, Associate 2026, valid to 2029

SAP Certified Application Associate, CRM 2013

Microsoft MCTS 70-562 and MCP 70-536 .NET

BSc Computer Engineering, Dokuz Eylül University, Izmir 2007

More

Also founded AlmondSpring Software Solutions, London 2019 to 2023

Languages: Turkish (native), English (full professional)

British citizen