

# Andrei Neagoe

FULL-STACK SOFTWARE ENGINEER | CLOUD & AI

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Full-stack engineer working across cloud infrastructure, Python back-ends and React front-ends. At Framestore I design and ship serverless AWS services and the Terraform that provisions them, and maintain the event-driven messaging platform connecting the company's internal applications. Alongside that I am the sole engineer behind Garzoni, an AI-powered financial learning platform live on web, iOS and Android with 150+ users. I am equally comfortable owning infrastructure, API design and the interface on top of them, and I care about measured results such as latency, cost and reliability.

## PROFESSIONAL EXPERIENCE

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### Software Developer — Framestore

Jul 2025 - Present

- Built a serverless AWS back-end for the Public Links service: API Gateway, Step Functions and five Python Lambdas over RDS Postgres, with S3 pre-signed URLs and an ElastiCache layer that cut repeat link loads from 0.8 s to 0.16 s.
- Provisioned the full stack in Terraform (Lambda, API Gateway, CloudFront, WAF, ElastiCache, VPC, IAM) with per-environment remote state and GitLab CI deployment, including isolated per-developer AWS environments now used across the team.
- Cut cold-start latency from ~19 s to ~5 s through Lambda memory profiling, an 18 MB → 1 MB deployment package and a scheduled warmer, and hardened the public API with AWS WAF and a CloudFront origin lock.
- Ran the architecture investigations for WAF, API Gateway and cold-start performance and authored the reference documentation the team now deploys against, setting the implementation approach adopted for the service.
- Maintained Framestore's Events Bus (RabbitMQ, MongoDB, Ansible): moved message callbacks onto a thread pool to eliminate heartbeat starvation and connection-drop storms, added per-service broker authentication, and led the client rollout across 12 downstream applications.
- Enhanced Flock's React scheduling UI and built collaborative annotation in Framecast using WebRTC, Janus DataChannels and custom canvas layers, alongside support work and sprint planning in an Agile team.

### Data Automation Developer — Brixton Radio

Sep 2024 - Mar 2025

- Reduced manual data processing by 40% by designing an automated API-driven data extraction system, effectively managing high-volume social media and analytics data.
- Integrated Google Calendar and Forms to streamline management of 50+ weekly radio shows, improving metadata accuracy by 30% in a dynamic broadcast environment.

## PROJECTS

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### Garzoni — AI-Powered Financial Learning Platform | Founder & Sole Engineer

2024 - Present

- Built and shipped the entire product solo: a pnpm monorepo spanning a Django 5.2 / DRF / Celery API, a React 19 web app and an Expo mobile app sharing a TypeScript core. 900+ commits over 21 months, live on the App Store, Google Play and web with 150+ users.
- Built an AI tutor on OpenAI function calling with RAG over the curriculum (pgvector), voice tutoring via Whisper and TTS, receipt analysis via GPT-4o vision, and a learning path re-ranked daily by an LLM, hash-short-circuited to avoid redundant model spend.
- Shipped the commercial layer: three-tier subscriptions with cross-platform entitlements via RevenueCat (Stripe Web Billing, App Store and Play IAP), Plaid open-banking budgeting with statement import, and per-tier quotas and paywalls.

- Engineered the platform behind it: gamification (streaks, daily and weekly missions, leagues, leaderboards, spaced-repetition review); JWT auth with Google and Apple sign-in; brute-force protection, reCAPTCHA Enterprise and Sentry; Celery scheduled jobs; 20+ backend test suites.
- Ran it in production end to end: Docker, Railway, Vercel and EAS store releases, Cloudflare edge caching, health-gated deploys, automated backups and CI enforcing pinned dependencies, vulnerability auditing and secret scanning.

TECHNICAL SKILLS

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|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Languages     | Python, JavaScript, TypeScript, SQL                                                                                                                    |
| Cloud & Infra | AWS (Lambda, Step Functions, API Gateway, CloudFront, WAF, S3, RDS, ElastiCache, VPC, IAM, Amplify), Terraform, Docker, GitLab CI, GitHub Actions, GCP |
| Backend       | Django, DRF, FastAPI, REST APIs, Celery, PostgreSQL, MySQL, MongoDB, RabbitMQ, Redis                                                                   |
| Frontend      | React, React Native / Expo, Vite, HTML5, CSS3, Tailwind                                                                                                |
| Other         | Git, WebRTC, LLM APIs (OpenAI, Claude), Figma, Agile/Scrum                                                                                             |
| Spoken        | English (Proficient), Romanian (Native)                                                                                                                |

EDUCATION

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| BSc Computer Science, First Class Honours   <u>Queen Mary University of London</u>                                                                                                                                                                                                                                                | 2022 - 2025 |
| <ul style="list-style-type: none"><li>• BCS-accredited degree from the School of Electronic Engineering and Computer Science.</li><li>• Ranked in the top 10% for key technical modules and led several team projects, with coursework focused on software engineering, databases, web development and neural networks.</li></ul> |             |

ADDITIONAL INFORMATION

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- **Internal Training, Framestore (ML at Framestore):** four-day programme covering ML theory and hands-on model building, MLOps development and deployment, data provenance and asset tracking in production, diffusion models and large language models.
- **Internal Training, Framestore (Web Development Group):** ongoing 30+ session programme on the company's standardised web stack: React, Vue, Django, FastAPI, REST API design and lifecycle, Docker, GitLab CI deployment, load balancers, Google SSO/OAuth, ELK logging and GCP cloud workshops.
- **Workshops:** Masterclass at the Royal Academy of Engineering on professional networking, public speaking and personal branding.
- **Awards:** Accolades in multiple national high school Olympiads for Mathematics and Computer Science.