Alex Neamtu

Senior Backend & AI Engineer

Bucharest, Romania · Forward Deployed & Founding Engineer · Open to roles and contracts, EU remote

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Summary

I build backend and AI systems that run in production. 20+ years, mostly TypeScript, Node.js and Python on AWS serverless.

I work independently across client projects and my own products, from government health reporting and AI video platforms to developer tools.

Open to senior backend and AI engineering contracts, remote in EU time zones. Available for a full-time engagement after transitioning current commitments.

Experience

Senior Software Engineer

Sand Technologies · Contract
Jul 2021 – Present

Built and owned backends for six client products on AWS.

- **Health Intelligence Center** — As Forward Deployed Engineer, delivered the health-reporting MVP on-site for the Botswana Ministry of Health in a team of two, then built the data platform spanning 5 African countries.
- **Diginym** — Built a generative-AI pipeline producing broadcast-quality talking-head videos.
- **VetProcure** — Built an EU veterinary-procurement platform that collects manufacturer catalogs and automates webshop ordering.
- **CardSeer** — Built real-time price synchronization and search across trading-card marketplaces.
- **The Room** — Built event-driven workflows connecting candidates with employers.

Tech: TypeScript, Python, AWS serverless, GraphQL, PostgreSQL, Airflow, dbt

Senior Software Engineer

CLIPr · Contract
Jul 2021 – Present

Part-time. Main backend engineer on an AI video platform that turns long recordings into searchable, indexed moments.

- Built the ingestion pipeline (AWS Step Functions) that runs each video through 11 AI analysis steps: transcription, speakers, sentiment, entities, chapters, Q&A, visual cues and more
- 18,000+ hours of video processed, across 30,000+ videos and 13 million searchable clips
- Added semantic search over transcripts using vector embeddings in OpenSearch
- Worked across the platform, from research prototypes to self-hosted deployments

Tech: TypeScript, Node.js, Python, AWS serverless, OpenSearch, DynamoDB

Independent Engineer & Open-Source Projects

Neamtu Alexandru PFA · Self-employed
Apr 2012 – Present

Independent open source and civic tech projects:

- **pairpilot.ai** — A multi-model agentic pair-programming CLI (Claude + OpenAI) with a writer/reviewer loop and repo-aware file, shell, and git tools.
- **htoprc.dev** — A live web app to browse, preview, and edit htop configurations; React 19, Cloudflare Workers, GraphQL, with a published npm package.
- **Risc Seismic București** — A public tool used by thousands of Bucharest residents to view seismic ratings for buildings across the city.
- **Liquid Investigations** — A secure collaboration server for investigative journalism teams, used across Europe.
- **Hoover toolset** — A suite of document search and analysis tools for large document sets, used in investigative journalism.

Tech: Python, Django, Elasticsearch

Founder & Developer

SendRec · Self-employed
Jan 2026 – Present

Lead developer of SendRec, an open-source video recording and sharing platform.

- Built browser recording, AI transcription and team workspaces with SSO, SAML and SCIM
- 150+ users, about 30 active each month, and first paying customers
- Integrated open-source contributions, including a Kubernetes Helm chart

Tech: Go, React

Founder & Developer
UpgradeYou · Self-employed
Feb 2026 – Present

Built an AI CV review product end to end, with Stripe payment integration.

- Built a pipeline that routes review tasks across multiple LLMs and adds web-search context to produce specific fixes and rewrites

Tech: Python, FastAPI, TypeScript

Senior Software Engineer
Archbee · Contract
Aug 2025 – Nov 2026

Part-time. Modernized the build and infrastructure of a documentation SaaS used by teams at Adobe, Cisco and Bosch.

- Moved the monorepo from npm and Nx to pnpm and Turborepo, cutting local install time from 3 minutes to 10 seconds
- Upgraded the main services to Node.js 24 LTS and removed unused dependencies
- Consolidated the app, API and worker onto one Docker image deployed to AWS ECS

Tech: TypeScript, Node.js, Turborepo, Docker, AWS ECS

Senior Full Stack Developer · Scenset · Contract
Mar 2021 – Jun 2025
Part-time. Built recommendation APIs and internal tools on GCP integrating third-party travel data providers, powering personalised trip matching for end users.

Senior Backend Developer
optilyz · Contract
Mar 2020 – Jul 2021

Internal and external APIs for Europe's leading direct mail automation software.

- Designed and developed APIs for optilyz's cross-channel marketing platform.
- Built tools to automate and personalize direct mail campaigns at scale.

Tech: Node.js, MongoDB, AWS

Senior Software Engineer
Eau de Web · Full-time
Aug 2019 – Mar 2020

Provided development and maintenance for a range of projects.

- School Meals manages the attendance and the food delivery and consumption in the World Food Programme projects
- Ogor analyzes satellite imagery of farms, helping farmers to reduce scouting effort by as much as 90%. It turns imagery into a prescription map for fertilizer and crop protection application and optimize farm production and view analytics on farm performance.
- Scratch - a scraper for the United Nations and TED notices
- Held the Django Web Application course for the senior year at the University of Bucharest

Tech: Python, Django, PostGIS

Senior Backend Developer · OWNZONES Entertainment Technologies · Full-time
Dec 2017 – Aug 2019
Designed and developed backend for Discover, a media delivery platform enabling content owners to distribute and monetize their content libraries.

Lead Software Designer · Endava · Full-time
Jun 2017 – Dec 2017
Led backend architecture for paywalls across multiple US publications, handling subscriber access and payment flows.

Team Lead · Endava · Full-time
Aug 2015 – Jun 2017
Design and development for the paywall of multiple US publications. Development and maintenance for a global e-commerce solution.

Software Developer · Coinzone · Full-time
May 2014 – Aug 2015
Built and maintained a Bitcoin payment gateway and wallet, integrating merchant APIs for real-time transaction processing.

Software Developer · Pionix Marketing Solutions SRL · Full-time
May 2013 – May 2014
Integration and maintenance of mobile detection and mobile payment solutions.

Automation Engineer · Axway · Full-time
Apr 2011 – Apr 2012
Development and maintenance for the automation testing framework of the company's B2B enterprise solutions

CA Consultant · Stefanini Techteam (formerly known as Techteam) · Full-time
Feb 2010 – May 2011
Development and maintenance for the ticketing system used by the company

Software Developer · TechTeam Akela · Full-time
May 2007 – Feb 2010
Development and maintenance for the in-house ticketing system used by the company

Freelance Software Developer · APEX INFOMEDIA · Self-employed
May 2006 – May 2011
Development and maintenance for different projects

Software Developer · Ascensys Soft · Part-time
Jan 2004 – May 2007
Development and maintenance for presentation and e-commerce websites

Projects

SendRec · Neamtu Alexandru PFA
Feb 2026 – Present

Open-source, EU-hosted alternative to Loom. Record and share videos using the hosted service or self-host with Docker.

Repository https://github.com/sendrec/sendrec

UpgradeYou · Neamtu Alexandru PFA
Feb 2026 – Present

AI CV review that routes each review across multiple LLMs and adds web-search context to produce specific fixes and rewrites. Paid through Stripe.

htoprc.dev · Neamtu Alexandru PFA
Jan 2026 – Present

Browse, preview and edit htop configurations in the browser. Built with React 19, Cloudflare Workers and GraphQL, with a published npm package.

Repository https://github.com/alexneamtu/htoprc.dev

Coinzone Wallet · Coinzone
Jan 2015 – Aug 2015

Wallet application built from scratch using Open Source technologies.

Teatrul Romanesc · Neamtu Alexandru PFA
Aug 2012 – Dec 2014

Teatrul Romanesc is an website that monitors cultural events all over Romania.

Eventful Theme · Neamtu Alexandru PFA
Jun 2012 – Dec 2013

Eventful is a Premium WordPress Theme developed to create events-oriented websites. Taking advantage of the powerful custom-post-type feature in WordPress (v 3.0 and above), we created a complex platform that can handle events, locations and artists with a bundle of features and options.

Gazeta de Arta Politica · Neamtu Alexandru PFA
Jan 2010 – Dec 2012

Gazeta de Arta Politica is an online magazine.

Skills

Languages: TypeScript, JavaScript, Python, Go, PHP, SQL, Bash

AI: Artificial Intelligence (AI), LLM APIs (Claude, OpenAI, Gemini), LiteLLM, Generative video pipelines, ML inference APIs, Claude Code, Codex

Backend: Node.js, GraphQL, REST APIs, Prisma, FastAPI, Django, Fastify

Cloud & Infrastructure: AWS (Lambda, Step Functions, ECS, SQS/SNS), Infrastructure as code (IaC), AWS CDK, Pulumi, GCP, Docker, Kubernetes, Cloudflare Workers

Data: PostgreSQL, DynamoDB, Elasticsearch, MongoDB, Redis, Airflow, dbt

Frontend & Tooling: React, Vite, Turborepo, pnpm, Jest, Playwright

Education

Bachelor, Computer Science
"Politehnica" University of Bucharest
2002 – 2007

The Structure and the Architecture of Computer Systems specialization

High School, Informatics
A.T. Laurian National College
1998 – 2002