

Kristofer Ter-Gabrielyan

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SKILLS

Rust, Python, Go, Java, TypeScript, HTML/CSS, Elixir, C#/NET;
PostgreSQL, Redis, NoSQL, GraphQL, gRPC, Open Source Frameworks, Functional & Concurrent Programming;
Linux, Docker, AWS, REST API, Object-Relational Mapping (ORM), ETL, AI, LLMs, Natural Language Processing (NLP);
Scrum, Agile, Kanban, Jira, Git, Cross-functional Collaboration, Team Management, Mentoring, Onboarding

WORK EXPERIENCE

GUIDANCE ANALYTICS

New York, NY

Lead Software Engineer

Jan 2025 – Present

- Led and executed essential redesigns of product backend, reducing DevOps workload by ~10 hours per week, cutting compile times by ~60%, and reducing monthly hosting and compute costs by over 40%
- Co-led the creation of an NLP orchestrator with gRPC for Ollama and GLINER, unifying complex workflows for AI-driven medical scoring, supporting 100+ multi-specialty measures, serving ~3K providers, and processing 10M+ annual reports
- Optimized complex data ingestion and querying in PostgreSQL for heavy use API to achieve speedups over 99%
- Drove cross-functional design planning meetings biweekly, contributing to key decisions and product development goals in a fast-paced startup environment
- Mentored 3 junior and cohort employees on product tech stack, integrating them into active, positioning them to collaborate on cloud-based product development on Agile teams
- Wrote unit tests across backend, achieving 87% coverage, and integrated them into active CI/CD workflow
- Maintained system integrity by with profiling and metrics tooling to monitor performance, autodeployment with AWS, Docker, and GitHub actions, and monitoring issues with Sentry
- Refactored disjoint codebase into common modular core library used across all services, using Git submodules to streamline its implementation by 8 other employees
- Decoupled a large backend repository, reimplementing it as 4 microservices that function independently

Junior Software Engineer

Mar 2024 – Dec 2024

- Learned Rust and replaced barebones SQL libraries with ORMs across backend within first month
- Oversaw the standardization of virtual environments and CI/CD workflow of 3 services
- Constructed and optimized PostgreSQL schema, GraphQL schema, and core product API in co-operation with front-end team, improving positive surveyed user experiences by ~32%
- Wrote 70+ substantial database migrations to transform the medical and AI scoring schema over time

RENSSELAER POLYTECHNIC INSTITUTE

Troy, NY

Computer Science Teaching Assistant

Aug 2022 – Jan 2024

- Taught 100+ students while leading Office Hours and Labs for 4 semesters
- Mentored students in Python projects and coursework, developing good code habits, and learning fundamental aspects of data structures, algorithms, and programming

FR PRESENTATIONS

Bethesda, MD

Web Developer and Visual Artist

Aug 2020 – Jul 2021

- Planned, developed, populated, deployed, and maintained 2 dynamic websites
- Created 5 marketing videos for 3 high-profile corporate clients with Unity, Premiere, and After Effects

EDUCATION

RENSSELAER POLYTECHNIC INSTITUTE

Troy, NY

B.S. Computer Science; Minor in Music Production

2021-2024

Projects & Awards

ALCHEMICODE LLC

Apr 2020 – Present

- Founded software and media company to consolidate multiple revenue streams
- Creating content for niche YouTube channels with thousands of subscribers and daily viewers
- Developing open source software and hosting solutions to ride market trends and innovate on existing projects

AWARDS

- Shodan (black belt), AEUSKF, 2024
- Dean's Honor List, RPI, 2021-2024;
- Eagle Scout, Boy Scouts of America, 2021;
- Certificate of Congressional Recognition, Congressional App Challenge, 2018;