

# Kristofer Ter-Gabrielyan

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## SKILLS

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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

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### 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

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### RENSSELAER POLYTECHNIC INSTITUTE

Troy, NY

B.S. Computer Science; Minor in Music Production

2021-2024

## Projects & Awards

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### 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;