

# Kristofer Ter-Gabrielyan

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## WORK EXPERIENCE

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### GUIDANCE ANALYTICS

New York, NY

*Lead Software Engineer*

*Jan 2025 – Jan 2026*

- Led and executed essential redesigns of product backend, reducing monthly hosting and compute costs by **over 40%**, cutting compile times by **~60%**, and reducing DevOps workload by **~10 hours per week**
- Co-developed a natural language processing (NLP) orchestrator in **Rust** with **gRPC** for **LLMs**, streamlining AI medical scoring over a **distributed system**, processing **10M+ annual reports**, serving **~3,000** providers, and supporting **300+** unique industry classifications
- Optimized complex **data ingestion** and querying in **PostgreSQL** for heavy use **API** to achieve speedups **over 99%**
- Made key decisions in **cross-functional** design planning meetings biweekly, contributing to product development goals in a **fast-paced startup** environment
- Mentored **3** junior and cohort employees on product tech stack, positioning them to collaborate on cloud-based product development on **Agile** teams
- Wrote **unit tests** across backend, **achieving 87% coverage**, integrated them into PR checks and **CI/CD** workflow
- Maintained system integrity with profiling and metrics tools to monitor performance, autodeployment with **AWS**, **Docker**, and **GitHub actions**, and monitoring issues with **Sentry**
- Refactored disjoint codebase into common modular core library and **4 microservices**, using Git submodules

*Junior Software Engineer*

*Mar 2024 – Jan 2025*

- Adapted to new tech stack, replaced barebones SQL with **SeaORM Rust** code across backend within first month
- Oversaw the standardization of **virtual environments** and deployment 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 migrations to transform the database schema over time

### RENSSELAER POLYTECHNIC INSTITUTE

Troy, NY

*Computer Science Teaching Assistant*

*Aug 2022 – Jan 2024*

- Taught **100+** students per session 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** with **PHP** and **React**
- Created 5 marketing videos for 3 high-profile corporate clients with Unity, Photoshop, Premiere, and After Effects

## EDUCATION

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### RENSSELAER POLYTECHNIC INSTITUTE

Troy, NY

*B.S. Computer Science; Minor in Music Production*

*2021-2024*

## SKILLS

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**Programming Languages:** Rust, Python, Go, C#/.NET, Java, C/C++, TypeScript, HTML/CSS, PHP, React, Elixir

**Technologies:** PostgreSQL, MySQL, SQLite, MSSQL, Redis, MongoDB, DynamoDB, GraphQL, gRPC,

**Environments:** Linux, Docker, AWS, GCP

## 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;