Ali Rıza Aynacı

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Summary

I'm an undergraduate student majoring in Computer Engineering, with a focus on backend development. I'm currently looking for opportunities where I can contribute to backend or infrastructure teams, learn from experienced engineers, and continue growing by building real systems.

Education

Erciyes University, BS in Computer Engineering (3rd Year) *Expected Graduation: May 2027*

- Head of Activities & Events Department, *Erciyes University Software Technologies Club* (2025–Present)
- English Preparatory Class (B2, Upper-Intermediate) GPA: 84/100
- **Member & Embedded Software Lead**, *TEKNOFEST Rocket Team* (2023–2025)

Projects

RLaaS – Rate Limiting as a Service | `https://rlaas.tech` | github.com/AliRizaAynaci/rlaas

Tech Stack: Go, Redis, PostgreSQL, Fiber, Docker, Next.js, OAuth2, Docusaurus

- Developed a production-ready API rate limiting platform with **multi-tenant** project isolation, per-endpoint rule configuration, and **fail-open flag support** for graceful degradation in edge cases
- Implemented **Redis sharding** with pluggable selection strategies (`hash_mod`, `consistent_hash`) and dynamic config caching
- Built a full-featured dashboard (Next.js) with **Google OAuth2** login and JWT-based authentication for secure project and rule management
- **Deployed** via Vercel (frontend/docs) and Heroku (backend/db/cache), enabling integration through the `"/check"` endpoint
- **Authored** user-facing documentation using **Docusaurus**, covering usage examples, error handling, and integration patterns

GoRL – High-Performance Rate Limiting Library | github.com/AliRizaAynaci/gorl

Tech Stack: Go, Redis, GitHub Actions

- Designed and implemented a modular, **production-grade** rate limiter in Go, supporting Token Bucket, Sliding Window, Fixed Window, and Leaky Bucket algorithms → **Benchmarked** at **89–504 ns/op** with low memory usage and allocations (AMD Ryzen 7 4800H)
- Architected clean, interface-based storage for Redis and in-memory (extensible to NATS/SQL)
- Delivered **95%+ test coverage** and CI/CD via GitHub Actions
- Reached **92+ GitHub stars** and published detailed performance benchmarks

Other Projects (archived)

- Java Spring Boot apps: e-commerce backend, flight reservation, and fleet management – included JWT auth, REST APIs, Docker and CI/CD with GitHub Actions

Achievements

NASA Space Apps Challenge 2025 - Global Qualifier

- Achieved **2nd Place Regional Award** in the **48-hour NASA Space Apps Challenge 2025** for the **Clean Breathing - Air Quality Platform**.
- Selected as a Global Qualifier to advance to the international competition. Developed a fully containerized (**Docker**), end-to-end platform in **2 days**.
- Full-stack solution using **Go (Fiber)** backend, **Python ML** with **PostgreSQL**, and a **React** frontend to forecast air quality using **Earth Observation Data**.
- *GitHub Repositories: Backend | Frontend | ML/Data Processing*

Technical Skills

Programming Languages: Go, Java, C++, SQL

Technologies: Docker, GitHub Actions, Redis, PostgreSQL, Spring Boot, Next.js, Fiber, OAuth2, Docusaurus, Git

Concepts: Clean Architecture, OOP, Design Patterns, Rate Limiting, Sharding, JWT Auth, CI/CD