**Ross Magauin** Email: raaaalmagauin@gmail.com LinkedIn: https://www.linkedin.com/in/raaaal-magauin Mobile: +77400006101 Github: https://github.com/raaaalmagauin **Backend Developer**

# Education



* **Nazarbayev University** Astana, Kazakhstan

*Bachelor of Science in Computer Science Aug 2021 - Expected May 2025*

*Relevant Coursework:* Algorithms, Formal Languages, Programming Languages, Computer Systems and Organization, Performance and Data Structures, Artificial Intelligence, Database Systems, Software Engineering.

# Skills Summary



* **Languages**: Proficient in GoLang, Python, and Java. Familiar with C++ and C.
* **Backend & API Development**: Developed RESTful services using Gin, Gorilla Mux, and Django REST Framework. Experienced with gRPC, RPC, and Protocol Buffers for microservices communication.
* **Database Management**: Proficient with relational databases (SQLite, PostgreSQL) and NoSQL solutions (MongoDB, Redis). Familiar with database indexing using B-trees and Hash Indexes.
* **Containerization & Deployment**: Containerized applications using Docker and orchestrated deployments with Kubernetes on AWS.
* **Testing**: Prioritized unit testing for software reliability, utilizing tools like gomock for database mocking.
* **Data Structures & Algorithms**: Solid understanding of core data structures and algorithms, including Sorting, Searching, Dynamic Programming, and Graph processing.

# Experience



**dev.house** Astana, Kazakhstan

*Backend Developer Sep 2022 - July 2023*

* Developed REST API services in Golang using Gin and leveraged gRPC for efficient data flow and robust error handling.
* Managed and optimized Redis, NoSQL, and SQL databases, ensuring high performance and reliable data persistence.
* Containerized applications using Docker, enhancing scalability and ensuring consistent environments across deployments.
* Prioritized software reliability through rigorous unit testing, leading to a significant improvement in code quality and system stability.

# Projects



* **Vehicle Management System (VMS) Backend**: Led the backend development for the Vehicle Management System at Nazarbayev University using **Golang**. Developed robust APIs for vehicle registration, driver assignments, and real-time location

updates. Managed database operations with **PostgreSQL**, ensuring data integrity and security. Collaborated with frontend and iOS teams for seamless integration. Implemented user authentication, optimized performance for handling over 1000 vehicles, and ensured data backup and recovery mechanisms. Technologies: Golang, PostgreSQL, Google Maps API. Github [**link**](https://github.com/rassulmagauin/VMS-project)

* **SimpleBank Backend Service**: Developed a comprehensive **backend web service in Go** for a banking system. The service provides RESTful HTTP APIs for account management, balance tracking, and money transfers between accounts. Leveraged **Gin framework** for API development, **Docker** for containerization, and **Kubernetes** for deployment on **AWS**. The project also incorporates advanced features like gRPC APIs, asynchronous processing using **Redis**, and security enhancements with JWT, PASETO, and user authentication. Github [**link**](https://github.com/rassulmagauin/simplebank)
* **GRPC Project**: Developed a **Go-based GRPC** service for managing transactions, encompassing a GRPC server and client, both designed in Go, with interfaces and message types defined via **Protocol Buffers**. Github [**link**](https://github.com/rassulmagauin/GRCP)
* **E-commerce REST API**: Developed an E-commerce **REST API in Go.** The project includes API endpoints for managing users and orders. The data models are defined in Go. Github [**link**](https://github.com/rassulmagauin/GormPostgresEcommerceRestAPI)
* **Document Delivery System (Backend)**: Developed the backend for an electrical government project that enables users to request and deliver official documents efficiently. Implemented full **CRUD** operations and integrated a **distance-based pricing** algorithm using Django **REST** framework. Github [**link**](https://github.com/rassulmagauin/StockMarket)

# Honors and Awards



* *International Physics Olympiad (IPHO) 2020, 2019*

**Silver (Top 25%)**, **Bronze (Top 25%)** medals ∼**350 participants**

* *European Physics Olympiad (EuPHO) 2020*

**Gold (Top 5%)** medal ∼**270 participants**

* *Asian Physics Olympiad (APHO) 2019*

**Bronze (Top 25%)** medal and **Best experimentator (Top 1%)** award ∼**220 participants**