TIGRAN HAYRAPETYAN

SOFTWARE ENGINEER

CONTACT

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PROFESSIONAL SUMMARY

Highly effective Software Engineer with 5 years of experience specializing in building robust, high-performance backend systems using Go and C#. Proven ability to drive efficiency by developing comprehensive business automation systems. Expertise includes architecting and implementing scalable backends for gambling websites, developing critical web and desktop admin tools, desktop applications for business automatization and creating reliable Telegram and WhatsApp bot services to enhance operational reach.

EDUCATION

Yerevan State University | 2018-2022
Bachelors of Informatics and Applied Mathematics

LANGUAGES

English - intermediate
Russian - Upper intermediate
Armenian - Native

WORK EXPERIENCE

Softconstruct | May 2023 - Present
Backend developer
Key Responsibilities:

- Architected and deployed independent microservices utilizing the Go programming language to decouple critical functionalities, significantly improving system scalability and simplifying the maintenance of the main service.
- Designed and managed complex SQL database schemas, and optimized queries for both high-load application performance and specialized reporting needs.
- Ensured high code quality and maintainability by consistently adhering to clean code standards and producing clear, comprehensive technical documentation for all created functionality and APIs.
- Refactored and optimized core betting logic within the C# backend, achieving significant performance improvements and reducing high-volume transaction latency by 15%–30%.
- Engineered and implemented a comprehensive business automation system that dynamically and equitably distributes workloads among operational teams, enhancing overall resource utilization and efficiency.
- Developed integrated monitoring and reporting tools for the automation system, providing managers with actionable data and insights into employee performance and workflow bottlenecks.

MerSoft | June 2021 - May 2023
Software engineer
Key Responsibilities:

- Engineered significant performance optimizations for the core desktop application, successfully identifying and eliminating critical memory leaks to enhance stability and long-term resource efficiency.
- Optimized the underlying database logic and SQL execution for core functionalities, reducing server-side processing time by 40% during peak hours, resulting in a smoother, faster user experience within the connected desktop application.
- Collaborated with design teams to refine the desktop application's User Interface (UI) and User Experience (UX) using Windows Forms And WPF, ensuring maximum ease of use and achieving a final design focused on application speed and intuitive navigation.
- Led the refactoring and modernization of the Data Access Layer (DAL), replacing legacy technologies with the Dapper ORM and modern C# principles, which improved code maintainability and increased data retrieval speed by 50-80%.
- Developed a dedicated backend service in C# designed to work in tandem with the existing desktop application, enabling the deployment of essential, complementary functionalities for mobile devices.
- Integrated the core system with specialized biometric devices (Anviz and ZKTeco) to capture employee time-in and time-out data, enabling the consolidation and real-time visualization of attendance in a timesheet.

SKILLS

- Programming Languages: C# (.NET, async/await), Go (GoLang, Goroutines)
- System Design: DDD, Clean architecture, Microservices, Asynchronous programming, Concurrency
- Frameworks and Tools: ASP.NET, gRPC (Protobuf), RESTful APIs, Gin-Gonic, RabbitMQ, Redis
- ORM: Dapper, Entity Framework, ADO.NET, GORM, sqlx
- Databases: SQL Server, PostgreSQL, MongoDB, Firestore (Firebase)
- Desktop Applications: Windows Forms, WPF, XAML, MVVM
- Practices: Unit Testing, Git, Refactoring, Docker
- Cloud: Azure, Google Cloud (GCP)