Kotov Semyon

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EDUCATION

Eötvös Loránd University (ELTE)   Budapest, Hungary
BSc in Computer Science — GPA 4.6/5.0   2023 – 2026

SKILLS

Languages	C#, .NET (Core), Python, C, Java, SQL
Technologies	HTML5, CSS3, Bootstrap 5, ASP.NET Core, Git, Docker, EF Core, WPF
Databases	PostgreSQL, SQL Server, SQLite
Other	OOP, SOLID, REST API, Linux, Unit Testing, Design Patterns, CI/CD

PROJECTS

Industrial tool for data logger analytics (July 2023) — *C#*   Blog post
– Offline solution to analyze records captured by the industrial company's data logger.
– Faced poor graph performance with large amounts of data. Implemented the Douglas-Peucker algorithm, which resulted in a significant speed boost by reducing points on the graph by 360%.
– Maintained clean, documented code, compliant with OOP and SOLID principles. Applied MVVM architecture, dependency injection (DI), fluent interface design, and singleton.
– Developed page caching system to reduce RAM usage.
– Introduced unit testing and logging to identify bugs encountered by users.
– Developed a modern user interface in accordance with the specification. Established a smooth and responsive interface by using asynchronous programming and the ReactiveUI framework.

Client for music service (March 2022) — *C#, API, TPL*   Source Code
– Cross-platform community client for a popular online music service.
– Faced poor interface responsiveness because of the many API requests happening in a single thread. Introduced the task parallel library (TPL), which greatly improved the user experience.
– Implemented authorization, downloading/playing tracks, track queue, home page, library, and more.
– Contributed to the open-source C# API library.

Online bookstore (December 2021) — *Web, ASP.NET Core, SQL Server, EF Core*   Source Code
– Web application for a fictional bookstore with basic functionality.
– Implemented home page, product catalog and shopping cart, user profile, community forum and more.
– Stored data in SQL Server, created database queries using Entity Framework Core (ORM).

LANGUAGES

English   C1 (Obtained IELTS Academic Certificate)