

Mihai-Eugen Andrei

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PROFILE

Final-year BSc candidate in Engineering Physics, Applied Mathematics and Computer Science, with hands-on experience building desktop applications, backend services, REST APIs and client-server systems.

Oracle Cloud Infrastructure certified, with practical experience in C#, C/C++, Python, JavaScript, SQL, Git and Windows/Linux environments. Interested in Software Engineering roles focused on backend development, distributed systems, cloud platforms and data processing.

TECHNICAL SKILLS

Programming Languages: C#, Python, JavaScript, C/C++, SQL, Lua, GDScript, Java, PHP, HTML/CSS, MATLAB

Backend & Web: .NET, ASP.NET Core, EF Core, Node.js, Express.js, REST APIs, GraphQL, MySQL, SQLite, JSON

Software Engineering: OOP, client-server architecture, asynchronous programming, API design, server-side validation, data normalization, debugging, Git

Tools & Systems: GitHub, npm, Visual Studio, VS Code, Windows, Linux, PowerShell, Cloudflare Pages/Functions, SAP, Active Directory

Certifications: Oracle Cloud Infrastructure 2023 Certified Architect Associate, Foundational C# Certification with Microsoft

SELECTED PROJECTS

ParcelDesk – Windows Parcel Management Platform – C#, .NET 10, WinForms, ASP.NET Core, Entity Framework Core, REST APIs, SQLite, MySQL, Inno Setup

<https://github.com/DrX-svg/ParcelDesk>

Release: <https://github.com/DrX-svg/ParcelDesk/releases/tag/v0.2.0>

- Built a full-stack Windows desktop application using a WinForms client and ASP.NET Core REST API, with Entity Framework Core persistence and separated UI, API, service and database layers.
- Implemented customer and shipment management, AWB generation, status workflows and history, search/filtering and dashboard statistics.
- Added SQLite standalone and MySQL deployment modes, DPAPI-protected database credentials, automatic local API lifecycle management and first-run configuration.
- Packaged and released the application as a self-contained Windows installer with upgrade-safe configuration and optional data preservation during uninstall.

ArenaPULSE – eSports Match Dashboard – Node.js, Express.js, JavaScript, GraphQL, REST APIs, HTML/CSS, Cloudflare Pages

<https://github.com/DrX-svg/ArenaPULSE>

Live demo: <https://arena-pulse.pages.dev/>

- Built and deployed a responsive web dashboard retrieving official Counter-Strike 2 series data from the GRID Open Access GraphQL API.
- Designed the data flow from the external API through an Express backend, service layer and normalization adapter to browser rendering.
- Implemented server-side authentication, environment-based secret management, REST endpoints, filtering and API error handling.

Romanian Voice Typing Overlay - Python, Tkinter, faster-whisper, CTranslate2, PowerShell

<https://github.com/DrX-svg/romanian-voice-typing-overlay-python>

- Developed an open-source Windows desktop application for fully local Romanian speech-to-text processing.
- Implemented microphone selection, configurable ASR presets, persistent settings, global hotkeys, automatic text insertion, logging and error handling.

3D Multiplayer Physics Systems - Godot Engine, GDScript, C#, Client-Server Networking, 3D Physics

- Developed a multiplayer prototype with server-authoritative object and vehicle synchronization, authority management and state replication.
- Implemented per-client world-chunk streaming and debugged latency, replication and authority-transfer issues in a large OSM-derived environment.

PROFESSIONAL EXPERIENCE

GROUPAMA ASIGURARI SA

Bucharest, Romania

Data Entry, Validation and Processing Operator

May 2024 – Jan 2026

- Managed and validated HR data in SAP, maintaining accurate employee records and resolving data inconsistencies.
- Supported internal user-account and access-management processes through Active Directory.
- Collaborated with internal teams to resolve data-quality, account-access and employee-record issues.

PIAR – Patronatul Industriei Asigurarilor din Romania

Bucharest, Romania

Project Collaborator – Data and Reporting

May 2024 – Jan 2026

- Supported the EU-funded PROASIG project through data management, reporting, documentation and workflow improvement.
- Processed and analysed datasets using Excel formulas, validation rules and visual reports.
- Developed Python scripts to automate repetitive data-validation and reporting tasks.
- Standardized data-processing workflows and prepared structured operational reports, reducing manual work and improving consistency.

EDUCATION

National University of Science and Technology POLITEHNICA Bucharest

Bachelor's Degree – Engineering Physics, Applied Mathematics and Computer Science

- **Relevant coursework:** Object-Oriented Programming, Algorithms and Data Structures, C/C++, Java, Databases, Operating Systems, Assembly Language, Advanced Mathematics, Applied Physics, Analog and Digital Electronics, PLC, Computer-Aided Design.

LANGUAGES

- **Romanian:** Native; **English:** C2 – Proficient