Badan Alexandru

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SUMMARY

Full-stack Engineer with over 7 years of experience in the insurance sector, banking (including the National Bank of Moldova), and enterprise software development. Skilled in building scalable, high-performance solutions using modern technologies and frameworks. Experienced in managing complex projects, optimizing systems, and promoting team collaboration to drive innovation and operational efficiency.

WORK EXPERIENCE

NATIONAL BANK OF MOLDOVA   Mar 2023 - Present
Senior Engineer – Banking Systems • Chisinau, Moldova

Technologies Used:

- **Backend**: C#, .NET Core, ASP.NET Core, Entity Framework, Dynamics 365 CRM
- **Frontend**: Blazor Server, MVC, Razor Pages
- **Database**: SQL Server, PL/SQL, Mongo-DB
- **Authentication**: Keycloak, OAuth2, OpenID Connect
- **Caching & Performance:** IMemoryCache, Redis

Key Contributions:

- Designed modular and scalable enterprise applications, applying principles aligned with **TOGAF** and **BIAN** reference models.
- Involved in **banking systems architecture** at the National Bank of Moldova, with focus on secure authentication (**Keycloak**), service orchestration, and performance optimization (**Redis**, caching, **EF Core**).
- Collaborated on system integration between internal banking platforms and external services (CRM, authentication, data exports).
- Implemented complex filters and access models based on user roles, branches, and periods, ensuring dynamic scalability.
- Participated in refactoring legacy systems toward modern component-based architecture using Blazor Server and Razor Pages.

CORALE-SOFT SRL   Mar 2017 - Nov 2022
CEO, DevOps Engineer • Chisinau, Moldova

Technologies Used:

- **Desktop Applications**: WPF, WCF, DevExpress, .NET Framework
- **Web Development**: ASP.NET Core, Blazor Server, HTML, CSS, Bootstrap
- **API and Reporting**: Web API, Fast Report, Swagger
- **Database**: MSSQL, Stored Procedures, Database Optimization
- **Programming Languages**: C#, JavaScript

CORMAR-SOFT SRL   Aug 2014 - Mar 2017
Technical Director • Chisinau, Moldova

Technologies Used:

- **Insurance Systems**: NGI (New Generation Insurance)
- **Programming**: C#, .NET Framework
- **Server Administration**: Windows Server, IIS
- **Monitoring and Security**: SQL Server Management Studio

MOLEX ZETRONIC SRL   Sep 2010 - Mar 2014
PLC Programmer • Padova, Italy
Technologies Used:
- **Automation and Control**: SIEMENS PLC, TIA Portal, SCADA Systems
- **Embedded Systems**: Microcontrollers, Wireless Communication Modules

4P Mobile Data Processing   Feb 2006 - Jul 2010
Electronic Operator • Padova, Italy

Technologies Used:
- **Hardware and Automation**: Digital Logic, Programmable Logic Controllers (PLCs), Measurement Systems
- **Electronics**: Microprocessors, PCB Design, Circuit Testing

EDUCATION

Engineering and Management in Telecommunications   Sep 2014 - Jun 2019
Technical University of Moldova • Chisinau, Moldova

SKILLS

- **Advanced OOP:** Expertise in design and implementation based on principles such as inheritance, encapsulation, polymorphism, and abstraction.
- **Encryption and Decryption:** Experience with security algorithms for data protection.
- **Application Architecture:** Design and development of scalable and robust applications (MVC, Microservices).
- **Hardware:** Diagnosis and maintenance of computers.
- **Software:** Administration and configuration of complex systems and applications.
- **Internet and Cloud:** Configuration and integration of web applications and services.
- **Troubleshooting:** Rapid identification and resolution of hardware/software issues.

ADDITIONAL INFORMATION

- **Languages**: Romanian, Russian,Italian,English.
- **Certifications**: SQL, C#, ASP. Net Core MVC
- **Driving License Categories:** A, B, C, BE, CE.