

SAND GAROFALO

Full-Stack Software Developer

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TECHNICAL SKILLS

Languages: TypeScript, C#, SQL, HTML5, CSS

Frontend: Vue.js 3, Quasar, Vite, Vitest, Pinia, Vue Router, VueUse, DevExpress / DevExtreme, WPF, WinForms

Backend: .NET (7, 8, 10), ASP.NET Core, Entity Framework Core, Dapper, ADO.NET, Node.js, tsoa, REST, OpenAPI / Swagger

Databases & Storage: SQL Server, PostgreSQL, IBM DB2 z/OS, SQLite; MinIO / S3

Testing: xUnit, Moq, Testcontainers, WireMock.NET, Application Factory integration tests, Jest, @vue/test-utils, Playwright, Vitest

DevOps & Tools: Docker, Kubernetes, GitLab CI/CD, GitLab Package Registry, Git, GitHub, TFS, SonarQube, Atlassian (Jira, Bitbucket), npm workspaces, Grafana, Loki, Kibana

Architecture & Security: REST APIs, Microservices, Backend-for-Frontend (BFF), SPA, MVC / MVVM, Dependency Injection, RBAC, Microsoft Entra ID, ADFS, OAuth 2.0 / PKCE, Database-per-Service

Practices: Agile, Code Reviews, Conventional Commits, Commitizen, Semantic Versioning (SemVer), DRY, ACID, Convention-over-Configuration, UML / Mermaid diagrams

PROFESSIONAL EXPERIENCE

Full-Stack Software Developer | Elmec Informatica S.p.A.

Feb 2025 – Present

Remote role within a rapidly growing team building full-stack business applications, from time-tracking platforms to specialized internal tools that streamline operational workflows.

- **Defined team-wide engineering standards**
coding conventions, shared technology choices and a unified testing — and onboarded new developers into them.
- **Authored shared libraries adopted across the team**
for backend and frontend environments, ranging from shared UI component ones to standardizers / wrappers of server-side pagination, filtering, and sorting via REST URL conventions.
- **Shipped end-to-end full-stack applications**
by owning the entire architectural process: analyses, edge cases, integrations, business requirements, drafting data bank schemas, source code write, releases (w. notices), writing / maintaining up-to-date documentation, handling of new feats / bugs via ticketing systems.
- **Optimized performance across a variety of flows**
rewriting existing workloads with more efficient code and technologies. Constant stress-testing existing implementations to apply greater degrees of normalization / simplicity.
- **Led team's migration to newer stacks / patterns / frameworks**
transitioning from pure JS code to typed TS one; implement frontend file-based routing from manual SPA routes; shift from strict stored procedures data access to fully fledged usage of EF Core and more.

Software Developer | Softray S.r.l. & Cluster Reply S.r.l. — OVS S.p.A.

Jul 2022 – Feb 2025

Long-term consulting engagement at OVS and other minor companies contributing across multi-year migrations of legacy desktop applications — including a large monolithic WinForms application and a Qlik report-browsing tool — to cloud-based services and modern web frontends.

- **Contributed across all three phases of the legacy-to-cloud migration**
(1) replacing direct DB calls with cloud REST APIs; (2) extracting features into independent microservices and micro-apps, with strict UI/server separation and OpenAPI specs generated from TypeScript type definitions; (3) building the web apps that replaced the desktop monoliths.
- **Bridged legacy and cloud worlds in parallel for the entire engagement**
release management for the legacy WinForms apps (versioning, regression testing, per-feature publication via the internal deployment tool) ran alongside cloud feature delivery through Git-based pipelines w. CI preview environments. Built a companion WPF monitoring app to keep oversight on the legacy side. Source control split: TFS for legacy, Git/GitLab for cloud.
- **Authored shared internal libraries reused across services**
ranging from UI component libraries used across web frontends to a database access layer that uniformized queries across genuinely heterogeneous backends — IBM DB2 z/OS on mainframe (with both DB2-specific SQL and RQL) alongside modern SQL Server. Documentation conventions (README / CHANGELOG) followed throughout the codebase.
- **Established a multi-layer testing strategy**
unit / component coverage + end-to-end flows + production behavior monitoring through log dashboards. Made refactoring safe across the long migration timeline.

EDUCATION

Perito Tecnico Informatico | Istituto Istruzione Superiore "Einaudi-Scarpa" *Sep 2015 – Jul 2022*
Technical education with a focus on information technology and software development.

LANGUAGES

- **Italian:** Native
- **English:** Fluent (C2)