Andrea GRAZIANI
Software engineer

Self-independent and proactive full stack .NET developer with 2+ years of experience.

I developed both *desktop* and *client-server web* applications, dealing with databases, business logic and UI, with a focus on *quality* and *testability* of the released software.
I can handle all phases of the software development life cycle.

Despite I really like dealing with UI, I wish to improve my knowledge about back-end development and databases, exploring new *system architectures* in order to grow as a software engineer and build high-quality solutions.

ⓘ Info

- 📍 Rome, Italy
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- 🚗 Driving Licence B
  - *Car Available*

🔤 Languages

	Listening	Reading	Writing	Speaking
🇬🇧	B1	B2	B2	B1
🇮🇹	*Mother tongue*			

💼 Work History

○ **ALTEN ITALIA S.P.A.** | Rome, Italy — 📅 June 2022 - Ongoing
as Software Engineer

I worked as *consultant* developing several kind of software for following companies:

> **Telsy S.p.A.** | Rome, Italy — 📅 September 2023 - Ongoing
as Full Stack Developer

- I contributed to the development of two enterprise level desktop applications for Microsoft Windows concerning data encryption:
  - The first one aims to enable users to exchange data in a secure way exploiting *one-time pad* (OTP) as encryption technique
  - The last one is designed to allow cryptographic keys exchange between clients
- I was involved in designing and developing the database schema, the stored procedures and the UI for both applications, performing several bug fixes
- I set up CI/CD pipelines
- I updated technical and business documentations
- I improved the reliability of released software by leveraging static software analysis tools and designing and developing unit and integration tests

Results:

- Designed and developed an UI library in order to speed up desktop software development
- Deadlines met

Acquired skills:

- ✔ I acquired an extensive knowledge about Windows Presentation Foundation (WPF)
- ✔ I started to interact with Microsoft Active Directory and LDAP protocol integrating them with developed software
- ✔ Improved knowledge about C#, git, Jenkins, GitLab, SonarQube, Jira, Microsoft SQL Server and T-SQL domain language

> **GF Machining Solutions S.p.A.** | Meyrin, Switzerland — 📅 June 2023 - September 2023
as Front End Developer

- I participated to the development of a *client-server* web application which enable users to setup and manage laser industrial machines
- I designed and developed the UI for several application sub-modules, performing several bug fixes and wrote unit tests
- I updated technical documentation

Acquired skills:

- ✔ Significanlty improved knowledge about C#, git, Azure DevOps and Blazor/MudBlazor
- ✔ Slightly improved my confidence in spoken English and my ability to teamwork

> **ABB S.p.A.** | Rome, Italy — 📅 June 2022 - June 2023
as Full Stack Developer

- I developed two web-based management applications, both based on *client-server* architecture:
  - The first one is designed for data gathering and management, report extraction, scheduling activities and production monitoring of the ABB site of Rome
  - The last one was designed to monitor the activities done by suppliers of ABB.
- I performed requirements gathering, taking care of the technical documentation
- I designed and developed the business logic, the database schema and the UI of both the applications
- Handled production deployment and provided technical support to users
- Improved software quality by introducing static code analysis into the development process
- Supervised and mentored junior developers

Results:

- Deadlines met with customer satisfaction

Acquired skills:

- ✔ I acquired significant knowledge about several technologies like C#, SQL, .NET Core 6, Entity Framework, Blazor, CSS, HTML and Azure DevOps
- ✔ Improved interpersonal skills and my ability to work independently

		Years of use	Last time used
C	■■□	2	2020
C++	■□□	0.5	2012
C# 11	■■□	1.5	Ongoing
Java SE 12	■■□	2	2020
Go 1.17	■■□	1.5	2022
Python 3.x	■■□	1.5	2021
Assembly MIPS	■□□	0.5	2015
Assembly x86	■□□	0.5	2020
SQL	■■□	2	Ongoing
T-SQL	■□□	0.5	Ongoing
HTML	■■□	2	2023
CSS	■□□	0.5	2023
JSON	■■□	2	2023
XML	■■□	1	Ongoing
Rust	■■□	0.1	Ongoing
LaTeX	■■□	4	Ongoing

(*) ■□□ (Beginner) | ■■□ (Intermediate) | ■■■ (Advanced)

🎓 Education

MASTER'S DEGREE | Computer engineering 📅 2018 - 2022
Università degli Studi di Roma "Tor Vergata"
LM-32 - 2nd level degree in Computer engineering

- Final degree mark: 110/110 cum laude
- Thesis title: "*A QoS-aware broker for multi-provider serverless applications*"
- Thesis supervisor: *Valeria Cardellini*

BACHELOR'S DEGREE | Computer engineering 📅 2012 - 2018
Università degli Studi di Roma "Tor Vergata"
L-8 - 1st level degree in Information technology

- Final degree mark: 102/110

📋 Training

RABBITMQ USAGE IN EVENT DRIVEN ARCHITECTURE | Remotely 📅 September 2022
Provided by ALTEN Italia S.p.A.

SECURE CODING | Remotely 📅 July 2024
Provided by ALTEN Italia S.p.A.

🖥 Computer Skills *

WEB PROGRAMMING FRAMEWORKS	Blazor ≡	MudBlazor ≡	Bootstrap ≡
DESKTOP PROGRAMMING FRAMEWORKS	Windows Presentation Foundation ≡	JavaFX ≡
TESTING FRAMEWORKS	JUnit ≡	Mockito ≡	MSTest ≡	NUnit ≡	Moq ≡
VIRTUALIZATION AND CONTAINERIZATION	Docker ≡	Hyper-V ≡	VirtualBox ≡
MESSAGE ORIENTED MIDDLE-WARES	RabbitMQ ≡	MSMQ ≡	Redis Pub/Sub ≡
SYSTEM STYLES AND ARCHITECTURES	Client-server ≡	Serverless ≡	RESTful ≡	Cloud-native ≡
RDBMS	Microsoft SQL Server ≡	PostgreSQL ≡
TSDB	InfluxDB ≡
ORM FRAMEWORKS	Entity Framework ≡	Hibernate ≡
SHELL AND SCRIPTING	Bash ≡	PowerShell ≡
MODELLING TOOLS	UML ≡	Draw.io ≡	Microsoft Visio ≡	StarUML ≡
CLOUD	Apache OpenWhisk ≡	AWS EC2 ≡	AWS Lambda ≡	AWS Step Functions ≡	AWS CloudWatch ≡	Power BI ≡
DEVOPS, BUILD AUTOMATION AND TOOLS	Azure DevOps ≡	Jenkins ≡	Travis CI ≡	SonarQube ≡	Maven ≡	CMake ≡	NuGet ≡
OS	Microsoft Windows ≡	Microsoft Windows Server ≡	Kubuntu ≡	KDE Neon ≡	Manjaro ≡	Arch Linux ≡
IDE	Android Studio ≡	CLion ≡	IntelliJ IDEA Community Edition ≡	GoLand ≡	PyCharm Community Edition ≡	Visual Studio Enterprise ≡	Google Colab ≡
OTHERS	Git ≡	.NET Core ≡	.NET Framework 4.x ≡	Apache ZooKeeper ≡	Valgrind ≡	lp_solve ≡	Gurobi ≡	JIRA Software ≡

(*) ≡ (Beginner) | ≡ (Intermediate) | ≡ (Advanced)