

# ROBERTO MARSELLA

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## SKILLS & COMPETENCIES

- C
- Java (Springboot)
- Python (Pandas, NumPy, Matplotlib, Scikit-learn, Flask)
- C# (ASP.NET)
- IBM SPSS (beginner level)
- Excel (Advanced level)
- Advanced mathematical skills
- Financial modelling
- Relational Databases: SQL

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## PROFESSIONAL EXPERIENCE

### Deloitte & Touche s.p.a - Rome Software Engineer

Feb 2023 - Aug 2023

Took part in one main project for an institutional client as part of a back-end team:

- Contributed to the development of algorithms aimed to the interoperability of a complex web application, SQL databases and MS Excel, following corporate and clients requirements and deadlines.
- Manipulated big sets of data and performed migration operations from and to different databases.
- Provided ongoing support for software applications including upgrades, patches, and bug fixes to maintain error-free functionality.
- Performed troubleshooting activities to identify root cause of system issues and complex technical problems providing creative solutions in a timely manner.
- Extensive experience with Microsoft technology, mainly C# with ASP.NET framework, Excel and MS SQL Server.

### Lazio Chain research project - Rome Smart Contract Developer Intern (Bachelor's final project)

Jun 2022 - Dec 2022

The project focused on the development of a Blockchain-based coupon system for the startup YHOP (craft beer sector).

Core aspects of the work:

- Designed the “on-chain” and “off-chain” architecture of the system.
- Modelled the operational costs structure of the system and evaluated the operational sustainability of the Blockchain used (EOS.IO).
- Programmed and tested the Smart Contracts to manage the interactions with the EOS.IO Blockchain in C++ language using the dedicated library.
- Achieved a final result with an operational expense ratio higher than 99% (characterised to YHOP case).
- <https://github.com/ROB-MRS/YHOP-Coupon-System.git>

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## PROJECTS & COURSEWORKS

### Coursework: Rolls-Royce Computational Option Pricing Models:

- Python script to calculate Rolls-Royce call option prices through BSM model and Binomial Tree model, and Greeks for risk management purposes. (<https://github.com/ROB-MRS/CMFF-Coursework-I.git>)

### Jongo Mobile Application

- A mobile application developed in C# with Xamarin.forms framework for the management of booking for Jongo, a small business in the construction and renovation business (<https://github.com/ROB-MRS/Applicazione-Jongo.git>)

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## EDUCATION & CERTIFICATIONS

### MSc in FinTech with Business Analytics University of Westminster - London

expected graduation - Oct 2024

- course focused on advanced technologies including, blockchain, artificial intelligence, and machine learning aimed to develop skills in data management, data mining, predictive analysis for financial services, and high frequency trading.
- Expected Final Grade: Distinction (current average 78%)

### BSc in Engineering and Computer Science Università degli Studi Roma Tre - Rome

Dec 2022

- Final Grade : 94% (104/110)

### CFI - Financial Modeling & Valuation Analyst (FMVA)

- Enhanced skills in Excel, and developed skills in financial modelling, and corporate finance, enabling data-driven decision-making and strategic financial planning.