

Andrea Brandoli

PERSONAL DATA

PLACE AND DATE OF BIRTH: Giussano, Italy | 11st June 1990
NATIONALITY: Italian
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WORK EXPERIENCE

JUN 2019 - CURRENT **Fullstack Engineer** at Scytale s.r.l., Mantua, IT
Analysis and development of blockchain integrated platforms (Bitcoin, Ethereum, Quadrans, Quorum) for notarization, identity registration and two-factor authentication, mainly developed in C# (ASP .NET Core/Framework).
Research and development for the latest cryptographic algorithms for the generation and the management of shared cryptokeys.
Implementation of customized smart contracts for customers (finance, luxury, supplychain).

OCT 2018 - MAR 2019 **Intern** at Scytale s.r.l., Milan, IT
Development of a fully operating notarization service on the Bitcoin blockchain in partnership with DGI (Digital Gold Institute) and ANIA (Associazione Nazionale fra le Imprese Assicuratrici).
Become familiar with Bitcoin nodes, calendar servers and the open-source timestamping protocol OpenTimestamps.
Extended and improved the OpenTimestamps underlying JavaScript library to achieve additional features.

EDUCATION

SEP 2014 - APR 2019 **Politecnico di Milano**, Milan, IT
Master of Science Degree in MATHEMATICAL ENGINEERING - QUANTITATIVE FINANCE
Main Subjects: Bitcoin and Blockchain Technologies (Hash functions and elliptic curve cryptography, Blockchain and Merkle tree, Distributed consensus and mining, Transactions, Bitcoin Core, Wallets), Stochastic Processes, Real & Functional Analysis, Quantitative Finance, Numeric Computation, Programming.
Thesis Title: "Blockchain Notarization: Extensions to the OpenTimestamps Protocol."
Advisors: Prof. Daniele MARAZZINA, Prof. Ferdinando M. AMETRANO.

SEP 2009 - SEP 2014 **Politecnico di Milano**, Milan, IT
Bachelor of Science Degree in MATHEMATICAL ENGINEERING
Thesis Title: "A Delay Reaction-Diffusion Model of the Spread of Bacteriophage Infection."

LANGUAGES

ITALIAN: Mothertongue.
ENGLISH: Independent User.

SKILLS

Operating Systems: Windows XP, Windows 7, Windows 10, Linux (Ubuntu, CentOS).
Programming Languages: Python, MatLab, C++, C#, HTML, Javascript, Shell, Solidity, Flutter, Dart.
Word Processing Applications: LaTeX, Microsoft Word, Microsoft Power Point.
Spreadsheets: Microsoft Excel.
Other Skills: Team-working, problem-solving, critical thinking.

CERTIFICATES

JAN 2016 Thomson Reuters Datastream Certification.
JAN 2015 TOEIC; OVERALL SCORE: 830/990; LEVEL: B2.

PROJECTS

JUL 2015 Financial Engineering Course Project: "CVA in Presence of Wrong Way Risk".
Computation of Credit Value Adjustment (CVA) and CVA with Wrong Way Risk for a derivatives portfolio of Bank XX versus ENI as counterparty.

EXTRA-CURRICULAR ACTIVITIES

Sports: Currently engaged in team sports as a volleyball player, occasional experiences in adrenaline sports like parachuting and bunjee-jumping.
Hobbies: Cooking, traveling and online role-playing games.