

# Ivan Almer

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## EDUCATION

<b>Università Bocconi</b> <i>Master of Quantitative Finance and Risk Management</i>	Milan, Italy Sep 2023 – present
<b>University of Zagreb, Faculty of Electrical Engineering and Computing</b> <i>Master of Computer Science</i>	Zagreb, Croatia Sep 2019 – Jul 2022
<b>The Polytechnic University of Catalonia, Barcelona School of Informatics</b> <i>Master of Innovation and Research</i>	Barcelona, Spain Sep 2020 – Jan 2021
<b>University of Zagreb, Faculty of Electrical Engineering and Computing</b> <i>Bachelor of Computer Science</i>	Zagreb, Croatia Sep 2016 – Jul 2019

## EXPERIENCE

<b>European Central Bank (ECB) - Market Operation Analysis</b> <i>Market Operations Analyst</i>	Frankfurt am Main, Germany Oct 2022 – Jun 2023
<ul style="list-style-type: none"><li>Conducted precise and complex analyses related to Targeted longer-term refinancing operations (TLTROs)</li><li>Ensured timely delivery of multiple policy-relevant dossiers by automating the analyses using Python and SQL</li><li>Created a dashboard that enabled complete monitoring of TLTRO III time-dependent applicable interest rates</li></ul>	
<i>Trainee</i>	Dec 2021 - Oct 2022
<ul style="list-style-type: none"><li>Developed a script for TLTRO applicable interest rate calculation, which immensely sped up the existing process while also improving reliability</li><li>Maintaining and improving internal market operations database</li><li>Automating procedures and speeding up existing workflows</li></ul>	
<b>Agency04 - Mobile Development Team</b> <i>Junior iOS Developer</i>	Zagreb, Croatia Jul 2018 – Feb 2021
<ul style="list-style-type: none"><li>Ensured a delivery of a major project on a tight deadline while maintaining both code and application quality</li><li>Contributed to multiple iOS applications</li></ul>	

## PROJECTS

<b>Option Pricing and Hedging under Jump-diffusion model</b>   <i>Financial Mathematics</i>	Feb 2022 - Jun 2022
<ul style="list-style-type: none"><li>Master thesis at the Faculty of Electrical Engineering and Computing</li><li>Used Jump-diffusion process to model the price of the underlying asset</li><li>Derived a function to price a European call option written on the underlying</li><li>Mathematically showed that simulations can be used to price an option</li><li>Examined the effects of the quadratic- and delta hedge to hedge the open position in an option</li></ul>	
<b>The Crane Problem</b>   <i>Trigonometry, Calculus, Python</i>	Jun 2021
<ul style="list-style-type: none"><li>Invented a problem to find a function of time that describes how to move the load along the arm of the crane such that it covers the shortest distance between the two arbitrary points</li><li>Used Trigonometry and Calculus to develop a solution</li><li>Used Python to test it and visualise it</li></ul>	

## TECHNICAL SKILLS

**Tools:** Microsoft Office, Git, Tableau, LaTeX, Visual Studio  
**Languages:** Python, SQL, R, Java, C/C++  
**Libraries:** pandas, NumPy, Matplotlib