

# ZHUO YING JIANG LI

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## EDUCATION

<b>King's College London</b> , London, UK	09/2019 – 06/2022 (expected)
BSc Computer Science, Department of Informatics	
<b>IES Son Pacs</b> , Balearic Islands, Spain	09/2017 – 06/2019
International Baccalaureate, Grade: 45/45, Extended Essay (Maths): A	

## SELECTED PROJECTS

<b>Optiver volatility prediction:</b> Predict volatility given past trade and price series	08/2021
<ul style="list-style-type: none"><li>Implemented and compared different algorithms (decision trees and NN) in Python</li><li>Optimized hyperparameters using Optuna</li><li>Designed the prediction generator architecture having extensibility in mind</li></ul>	
<b>Blog:</b> Hacking and competitions writeups	Ongoing
<ul style="list-style-type: none"><li>Worked on and analysed 20+ challenges on HackTheBox and other CTFs</li><li>Wrote walkthroughs notes about operating system internals, shells, exploits</li></ul>	
<b>Sokoban solver:</b> A Sokoban solver using PDDL and OPTIC planner	04/2021
<ul style="list-style-type: none"><li>Analysed and performed experiments with OPTIC planner applied to Sokoban game</li><li>Wrote a detailed report in <math>\text{\LaTeX}</math></li></ul>	

## EXPERIENCE

<b>GIAC Hacker tools, techniques, exploits and incident handling training</b> , SANS Institute	Remote
<ul style="list-style-type: none"><li>Studied in detail defensive and offensive operations in internal networks</li></ul>	
<b>CTF Content Creator</b> , SANS Institute	Remote
<ul style="list-style-type: none"><li>Designed a challenge about extracting confidential data from leaked .git directory</li></ul>	
<b>HackTheBox Pro Hacker</b>	Remote
<ul style="list-style-type: none"><li>Solved (mostly) reverse engineering challenges</li><li>Attacked 15+ (mostly) Linux machines</li></ul>	
<b>SnapSense</b> (Startup)	Remote
Software Developer	03/2021
<ul style="list-style-type: none"><li>Implemented a diabetes ulcer monitoring system using Ruby on Rails + Bootstrap</li><li>Deployed resources and backend server to AWS using S3, RDS and EB cloud services</li></ul>	
<b>King's College London Chinese Students and Scholars Association</b>	Remote
Software Developer	09/2020
<ul style="list-style-type: none"><li>Built a WeChat miniprogram for news, weather, restaurant listing, second hand exchange, events and more</li><li>Supported one-click event booking</li></ul>	

## SELECTED AWARDS

GIAC Advisory Board member (top marks)	2020
Undergraduate Informatics Year 1 or Year 2 Prize (best performance)	2020
Silver Prize, Iberoamerican Olympiad in Chemistry	2019
Silver Prize, National Olympiad in Chemistry	2019
Silver Prize, National Olympiad in Physics	2019

## SKILLS

**Programming Languages:** Python, Golang, C/C++, Rust, Ruby, JavaScript, Java (ranked by proficiency)  
**Tools and Frameworks:** Git,  $\text{\LaTeX}$ , Tensorflow, Docker, Ruby on Rails, Vue, React, React Native, Bootstrap