

Cian Leo Blake

+966 56 066 8965 | dev@cianblake.com | [/cian-blake](https://cian-blake.com) | cian.blake.com

EDUCATION

King Abdullah University Of Science And Technology (KAUST) Jeddah, Saudi Arabia	2023 - 2025
Master of Science, Major in Computer Science	GPA: 4.0
Coursework in Computer Networks, Stochastic Processes, Advanced Machine Learning, Deep Learning	
New York University Abu Dhabi (NYUAD) Abu Dhabi, UAE	2019 - 2023
Bachelor of Science, Major in Physics with minors in Computer Science and Mathematics	GPA: 3.67
Coursework in Algorithms, Data Structures, Linear Algebra, Ordinary Differential Equations, Quantum I	

A-Levels: A* in Further Mathematics, A* in Mathematics, A* in Physics, A* EPQ **Other:** 1530 SAT, 329 GRE

EXPERIENCE

Founder - <u>Dismantly</u> Abu Dhabi, UAE	April, 2020 - Present
Developing intelligent software solutions to optimise and digitalise the global auto parts supply chain with AI.	
<i>Software Engineer</i>	
<ul style="list-style-type: none">Architecting scalable cloud-native backend for a multi-tenant platform with AWS (Lambda, S3, SAM).Implementing lightweight micro-frontend with ReactJS, MUI, REDUX, React Query and TypeScript.Training a random forest machine learning model to suggest the optimal pricing for parts.Developing an artificial intelligence virtual sales assistant for automatic order quoting and fulfilment.	
Technology Internship - <u>Mako Trading</u> London, United Kingdom	May, 2023 - Aug, 2023
<i>Software Engineer</i>	
<ul style="list-style-type: none">Designed an automatic hedging algorithm in Python with Monte Carlo simulations to optimise market making.Applied statistical models to large datasets, analysed trends and backtested strategies in a Quant project.Deployed stochastic process and game theory on live market making sessions with Volecube.	
Freelancer - <u>Upwork</u> Abu Dhabi, UAE	September, 2021 - May 2023
<i>Software Engineer</i>	
<ul style="list-style-type: none">Architected micro-services with non-relational databases with AWS (DynamoDB, NoSQL, ECS, EC2).Developed high performing apps and websites with ReactJS, MUI, REDUX, React Query and TypeScript.Earnt over \$10,000 collaborating with other entrepreneurs to implement their innovations.	
Technology Internship - <u>MidChains</u> Abu Dhabi, UAE	May, 2021 - September, 2021
<i>Software Engineer</i>	
<ul style="list-style-type: none">Developed automated testing scripts with Puppeteer and unit tests with Cypress in Python.Engineered frontend bug fixes in ReactJs, JavaScript and TypeScript for the production blockchain platform.Researched and integrated Sentry and Mixpanel for software health and user interaction tracking.	

RESEARCH

Computer Science Research Assistant - <u>KAUST</u> Jeddah, Saudi Arabia	August, 2023 - Present
<i>Communication Theory Lab</i>	
<ul style="list-style-type: none">Optimising communication in internet of things (IoT) with machine learning.Investigating optical wireless data centre communication.	
Physics Research Assistant - <u>NYUAD</u> Abu Dhabi, UAE	May, 2021 - August, 2023
<i>Low Mass X-Ray Binaries</i>	
<ul style="list-style-type: none">Published a quantitative multi-wavelength analysis of the low mass x-ray binary MAXI J1348-630.Developed an automatic pipeline for data reduction and dereddening in Python for large time series datasets.Constructed CORR, SEDs, HIDs, CMDs plots to investigate accretion components (accretion flow, disc jets)	
<i>Galactic Simulations</i>	
<ul style="list-style-type: none">Developed statistical simulations of thin, galactic discs in Python to parameterise dark matter and energy.Designed simulation experiments to isolate and test hypothetical models with real galactic formations.	

LEADERSHIP, COMMUNITY ENGAGEMENT AND AWARDS

1st Team Football Captain - NYU Abu Dhabi Abu Dhabi, UAE	September, 2021 - May, 2023
StartAD Pitch Off Champion, \$5,000 Prize Abu Dhabi, UAE	
NYU InnoVations Championship Runner Up New York, USA	
Won 12 Month TiE Dubai Mentorship Program Dubai, UAE	2020
TiE Young Entrepreneurship University Pitch Championship, 2nd Place Abu Dhabi, UAE	2020
TYE-U Global Pitch Participant Abu Dhabi, UAE	2020
Gold Duke Of Edinburgh Award Cheltenham, UK	2020
Gold British Mathematics Olympiad Awards Cheltenham, UK	2012, 2014, 2015, 2016
Gold British Physics Olympiad Awards Cheltenham, UK	2015, 2016, 2017

SKILLS AND INTERESTS

Skills: Python, C++, C, JavaScript, SQL, AWS, Git, React, TypeScript, REDUX, HTML5, CSS, Material UI, Jira

Interests: Self Taught Grade 8 Guitar, Piano, Singing, Music Producing, YouTube Content Creator, Travelling