

JOSH CHEEMA

Following a successful career in Investment Banking working on high-profile derivative transactions for a wide range of clients, I decided to make the switch to Software & ML/Data Engineering. Having studied Engineering Science at Oxford as an undergraduate, my true passions lie in solving complex problems and building innovative solutions using mathematical techniques. Given my longstanding interest in all things Tech, working at the intersection of mathematics, statistics and computing is the ideal career for me. I am now looking to build on my academic studies and gain industry experience in a role with the opportunity to further develop my skills in data science, machine learning and software engineering and, hopefully, help to solve complex business problems.



EDUCATION

- Jun-23
|
Oct-21 • **MSc Candidate, Machine Learning & Data Science (TBD)**
Imperial College London 📍 London, UK
- Jun-14
|
Oct-09 • **MEng, Engineering Science (2:1)**
Oxford University, St Hugh's College 📍 Oxford, UK
- Jun-09 • **A-Level: Further Mathematics (A)**
Rochester Independent College 📍 Kent, UK
- Jun-08 • **A-Level: Mathematics, Physics, History, English Literature (AAAA)**
Gravesend Grammar School 📍 Kent, UK

EXPERIENCE

- Oct-21
|
Jul-14 • **Executive Director, Derivative Products Group**
SMBC Nikko Capital Markets Ltd 📍 London, UK
 - Pricing and execution of interest rate swaps, inflation swaps, interest rate options and FX derivatives with a focus on project finance and structured corporate hedging, including negotiation and execution of ISDA Master, CSA and other hedging documents.
- Oct-13
|
Jul-13 • **Intern, Derivative Sales & Trading**
SMBC Nikko Capital Markets Ltd 📍 London, UK
 - Modelling of IRS, CCS and FX transactions. Review and summary of legal and compliance documentation.
 - Undertook projects evaluating ISDA agreements, swap models and credit risk simulations in order to analyse trends, benchmarks and profitability of historical transactions.

View this CV online at <https://joshcheema.io/cv/>

CONTACT

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LANGUAGE SKILLS

Python	
R	
L ^A T _E X	
SQL	
Git	
Bash	
Java	
C++	

Made with the R package
[pagedown](#).

The source code is available on
github.com/josh-cheema/cv.

Last updated on 2022-05-30.

Aug-12
|
Jun-12



Intern, Voice Broking

ICAP plc

📍 London, UK

- Rotated across commodities, fixed income, interest rate swaps and interest rate option desks.
- Shadowed brokers and supported desks by carrying out general admin tasks and writing tickets.



SELECTED DATA SCIENCE WRITING

Apr-22



Clustering: PCA vs t-SNE on the Fashion MNIST dataset

joshcheema.io

Apr-22



Spatial Data: Adjusting the Boston Housing dataset

joshcheema.io

Apr-22



Linear Discriminant Analysis vs Quadratic Discriminant Analysis

joshcheema.io

I regularly blog about data science and visualization on my blog joshcheema.io



CERTIFICATIONS & AWARDS

May-22



HackTheHub 2022: AI & Data Hackathon

HackTheHub

- 3rd Place (Team Event)
- Competition to create business idea using AI/Machine Learning to add value to industry. My team designed a predictive tool for crop selection given a set of soil conditions.

Apr-22



IMSE DigiFAB Datathon: Molecular Adsorption to Surfaces

Institute for Molecular Science and Engineering (IMSE)

- 2nd Place (Team Event)
- Competition to create predictive model for energy of adsorbed molecule following adsorption process given a range of pre-calculated descriptors

Apr-22



Google Data Analytics Professional Certificate

Google

- Passed
- [Credential](#)

Level III CFA exam candidate
Studying for AWS Cloud Practitioner and Solutions Architect (Associate) Certifications

Jun-19 ● **Level II CFA exam**
CFA Institute

- Passed
- [Credential](#)

Dec-17 ● **Level I CFA exam**
CFA Institute

- Passed
- [Credential](#)