

# Shashwat Dalal

IMPERIAL COLLEGE LONDON, COMPUTING MENG  
HEAD OF CORPORATE RELATIONS, IMPERIAL COLLEGE DATA SCIENCE SOCIETY

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## WORK EXPERIENCE

### BARCLAYS INVESTMENT BANK | SUMMER TECHNOLOGY ANALYST

June 2018 – September 2018 | London, United Kingdom

#### Data Engineer for DevOps Metrics CIB Chief Technology Office

- Individually built a proof-of-concept for a real-time ingestion engine that would collect group-wide metrics for strategic DevOps tool instances. Tools used include: **MongoDB**, **Python**, **Web-Sockets**.
- Built a classifier to check whether DevOps tool were being used in a compliant manner. Model was created in **Python** using **Scikit-Learn**, **Gensim** and **Jupyter Notebook**. Explained model using the **Lime** and **Seaborn**.

#### DerivHack 2018 Hackathon for Implementing ISDA's Common Domain Model

- In a team of six, represented Barclays at the hackathon. Created a derivatives trading/processing dApp on **R3's Corda** (DLT Platform).

#### Barclays Intern Hackathon Internal Hackathon centered around building a chatbot for Barclays Retail Bank

- In a team of four, built a chatbot that would use the user's previous spending pattern and geolocation to maximize cash-back opportunities. Was the full-stack lead on the team. Front-end was build using **React**, and used Facebook's **Wit.Ai** as the NLP engine. (<https://github.com/shashwatdalal/chatbot>)

### ABB ROBOTICS | INTERN

June 2015 – August 2015 | Tokyo, Japan

- Using **Rapid** and **RobotStudio**, implemented and tested solutions for several Japanese clients using both four-axis and six-axes robots. Immersed in Japanese corporate culture.

## EDUCATION

### IMPERIAL COLLEGE LONDON | COMPUTING MENG (THIRD YEAR STUDENT WITH A PROVISIONAL 1ST)

2016 - 2020 | London, United Kingdom

#### Academic Projects

- Aspect-based Sentiment Analysis for Goldman Sachs:** In a team of six, currently working on an proof-of-concept for an entity and sentiment analysis engine with their asset management engineering team. (<https://dev.azure.com/vapesoc/362%20Software%20Engineering%20Project/>)
- MatchUps:** In a team of four, created a web-application where teams can register and find other teams to play recreational sports with based on proximity, rank, and availability. Project was thin-sliced, hence all developers were full-stack. Front-end was written in **React**, the back-end was written in **GoLang**, and DevOps tools used for the project include: **Docker**, **Jenkins**, **AWS**. Additionally, took lead for **UX testing**. (<https://github.com/shashwatdalal/MatchUps>)
- WACC:** In a team of four, developed a compiler which compiled a turning-complete while-language to **ARM11**. The compiler itself was written in **Java**, and included additional functionality for higher-order-functions, control-flow-propagation optimization, and side-effecting expressions.

#### Extracurricular Activities

- Head of Corporate Relations for Imperial College London Data Science Society:** Point of contact for industry sponsors for the largest data science student society in the UK (Over 1,500 members as of June 2018). Additionally assist with growth strategy, and talent development.
- Volunteer Substitute Teacher:**, Was a substitute science teacher, once a week, at an underprivileged primary school in North London. Taught a year five class of 15 students.

### SAINT MAUR INTERNATIONAL HIGH SCHOOL | INTERNATIONAL BACCALAUREATE (42 POINTS)

2012 - 2016 | Yokohama, Japan

## SKILL-SET SUMMARIZED

### TECHNICAL SKILLS

Java • Haskell • Python • C • SQL • MongoDB • GoLang • NodeJS • AWS • Docker • Jenkins • Corda • Data Science with Python • Bash • UX Testing • Linux •  $\LaTeX$

### LANGUAGES

English (Written/Spoken Fluency) • Gujarati (Spoken Fluency) • Japanese (Written/Spoken Conversational) • Spanish (Written/Spoken Conversational) • Hindi (Spoken Conversational)