Shashwat Dalal

IMPERIAL COLLEGE LONDON, COMPUTING MENG
PRESIDENT, IMPERIAL COLLEGE DATA SCIENCE SOCIETY

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WORK EXPERIENCE

BLOOMBERG | Software Engineering Industrial Placement
April 2019 – September 2019 | London, United Kingdom

Containerizing Builds Build Solutions London Team
- Maintained **BuildStream**, an open source build and integration tool written in **Python**.
- Wrote a plugin to automate the creation of reproducible and layered **Docker** images.
  Report: https://shashwatdalal.github.io/placement_report.pdf
  Code: https://gitlab.com/BuildStream/bst-plugins-container

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**.

ABB ROBOTICS | Robotics Intern
June 2015 – August 2015 | Tokyo, Japan

EDUCATION

IMPERIAL COLLEGE LONDON | Computing MEng (Fourth Year Student with a Provisional 1st)
2016 - 2020 | London, United Kingdom

Academic Projects
- Beginning my final year project on **Federated Learning**.
- **Aspect-based Sentiment Analysis with Goldman Sachs:** In a team of six, built an aspect-based sentiment analysis engine for the asset management engineering team. Written in **Python**.
  Report: https://shashwatdalal.github.io/Software_Engineering_Project_Report.pdf
  Code: 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**.
  Pitch + Code: 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
- **President of Imperial College London Data Science Society:** Lead a team of 15 to ensure UK's largest student data-science society (Over 1,000 members as of June 2019) runs smoothly. Assist with growth strategy, corporate sponsorship, budgeting, union-relations, and talent development. Automated importing new members from Imperial's union website to our **MailChimp** list using **GitHub Actions**.
  `Website:` icdss.club

SAINT MAUR INTERNATIONAL HIGH SCHOOL | International Baccalaureate (42 Points)
2012 - 2016 | Yokohama, Japan

SKILL-SET SUMMARIZED

TECHNICAL SKILLS
Java • Haskell • Python • C • SQL • GoLang
JavaScript • AWS • Docker • Jenkins
Data Science with Python • Linux • LaTeX

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