

Alex Ran | Zihuan Ran

+44 7563822409 • zihuan.ran16@imperial.ac.uk
www.linkedin.com//alexzran • 116 Cromwell Road, London. SW7 4XB

Math&Stats undergraduate with extensive experience in Python and SQL for predictive modelling and data engineering, a strong motivation to extract insights from data and a commitment to excellence through effective teamwork and great communication skills.

Education

Imperial College London

BSc Mathematics and Statistics for Finance, Expected First Class

Mathematical Computation, Analysis, Algebra, Probability & Statistics, Statistical Modelling, Mechanics, Differential Equations, Multivariate Calculus, Numerical Analysis, Metric Spaces and Topology

London, UK

Oct 2016–June 2019

Working and Research Experience

Imperial College Data Science Society

Advance project team member

- Trained and validated **decision tree** model for **churn prediction** project
- Gave presentation and explained model detail

London, UK

Sep 2018–present

Hokodo

Data Science Intern

- Designed and built database for large-scale company data from scratch
- Programmed automated data processing function in **Python** to clean **JSON** responses from data providers' API
- Manipulated companies data and loaded to database using **SQL** queries
- Implemented **exploratory data analysis** and built a preliminary scorecard model for credit scoring

London, UK

July–Aug 2018

Imperial College Data Challenge/Transport for London

Delay Prediction of London Underground Operations

- Cleaned and implemented EDA for datasets containing history delays in recent 5 years
- Learned and implemented **PCA**
- Trained and **cross-validated** model to predict delaying time
- Visualized using **Tableau** and presented to business partners and mentors

London, UK

May 2018

UC Berkeley MEng Student Project

IoT for Precision Agriculture

- Extracted and cleaned large JSON datasets from **Azure**
- Visualized dashboards for website display

Berkeley, CA, USA

Apr 2018

Undergraduate Research Program(UROP)

Simulation of Stochastic Differential Equations and SDE with Uniform Distribution

Supervisor: Damiano Brigo

London, UK

Apr–Aug 2018

LinkedIn Analytic University Program

Insight Program

lectures and introductory projects on data cleaning, data validating, ETL and visualization

Mountain View, CA, USA

Mar 2018

Action Tutoring/Chelsea Academy

Volunteer GCSE Math Tutor

Helped year 10 and 11 students at Chelsea Academy with their mathematics and GCSE exams.

London, UK

Oct 2016–Apr 2017

Waterloo Mathematics Competition

Global top 25%

2015

Computing Skills and Projects

Python: RSA Cipher coursework and extensive use in industrial projects

SQL: Transformed and imported UK company data into cloud database

R: Analysis of Challenger's O-Ring failure, Factor analysis for Premier Leagues scoring

Matlab: Numerical analysis direction: CGS algorithm

Tools: Tableau, sklearn, pandas, numpy, xgboost, PgAdmin, AWS, LaTeX