

Luxi Liu

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Experience

Software Engineer

Hook Co

Nov 2021 –

Working on back-end team of 5 for a CRM data insights platform, integrating live data sources and developing features
Led development for a 'notes' feature synchronising 7000 notes with external CRM platforms (Hubspot and Salesforce)
Built a predictive binary classification model for customers to target accounts at risk of churning and suggest useful actions (such as increasing active users). Model has been 100% accurate so far in predicting churn (out of 20 accounts)
Technologies used: Python, SQL, react JS, Flask, AWS

Data Consultant

Peru Consulting

Sept 2019 – Sept 2021

Projects include:

- Data Analyst for commercial bank; built a regression model in R using an internal database to verify the client's supplier pricing, where renegotiations decreased main supplier's price by 12%.
- Business Intelligence Analyst for food retail company; built and presented automated supplier management Power BI dashboards, creating complex visualizations using DAX and M-Code, leading to savings of £13k per month.

Data Science Intern

artificial.io

June 2018 – September 2018

Built a gradient-boosted tree model to predict insurance risk, applying binary classification methods to housing data. Model had a 12% higher R^2 -value than the previous model and was demoed to clients.

Education

Master's in Maths, First Class

Imperial College London

September 2015 – July 2019

Specialising in Data Science and Statistics. Modules included: Mathematical Computation, Credit Scoring and Quantitative Analysis, Advanced Statistical Modelling, Data Science, Survival Models in Actuarial Science, Mathematical Finance, Time Series, and Game Theory.

Projects

Data/Software Engineering

Healthy Air Technologies

Jan 2022 –

Designing mobile app which will be connected to 3000+ home air purifying units. Developing web services, creating an IoT data pipeline and building and managing a SQL database on AWS for analysis and reporting.

Master's Dissertation

Imperial College London

September 2018 – June 2019

Modelled the causal effect of 20mph zones in London on traffic accidents by sourcing and transforming TfL data in R, using machine learning and regression to generate the propensity scores which were used to eliminate selection bias.

Personal Projects

github.com/luxi-liu97/

2020 –

Exploratory data analysis on space missions data to generate insights and recommendations for a new (fictional) space agency.
Implemented a Scheme interpreter in Python with full Read-Eval-Print- Load functionality

Technical Knowledge

Expert: Python, R, SQL, LaTeX, MATLAB

Competent: Java