RICHMOND SIN JING XUAN

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EDUCATION

National University of Singapore   Aug 2021 - Dec 2024
Bachelor of Science (Hons)
- Major in Data Science & Analytics (Specialisation in Operations Research)

SKILLS

- Programming Language: ReactJS, NodeJS, NextJS, Java, HTML, CSS, TypeScript, Tailwind CSS, Scikit-learn, OpenCV, PyTorch, TensorFlow, SQL, Python, R, PostgreSQL, MySQL, Db2
- Data Analysis Techniques: Multiple Regression, Logistic Regression and Data Visualization
- Data Science Techniques: Machine Learning Algorithms, Classification & Regression Models, Deep Learning and Foundational Model
- Software: IBM Watsonx, IBM Watson Discovery, IBM Watson Assistant

EXPERIENCE

National University of Singapore (NUS), Teaching Assistant   Aug 2023 - Present
- CS2040: Data Structure and Algorithms, it covers data structures (linked lists, stacks, queues, hash tables, binary heaps, trees, and graphs), searching and sorting algorithms, and analysis of algorithms

IBM, Data Science Intern   Aug 2023 - Present
- Conducted exploratory data analysis and revised machine learning algorithms using industry-leading tools (e.g., Python and R) on a cloud platform (e.g., IBM Cloud), resulting in actionable insights and enhanced business outcomes for external clients
- Collaborated with a cross-functional team of Data Scientists, Architects, and Software Engineers to construct and deploy machine learning solutions, solving complex enterprise-scale problems
- Utilized watsonx's AI foundation model creation capabilities to build and deploy foundational Natural Language Processing (NLP) models, enabling real-world applications and empowering businesses with actionable insights from textual data

Skin Research Institute of Singapore (SRIS), Data Science   May 2023 - Present
Intern
- Proficient in using Python for data analysis, including data cleaning and manipulation with libraries such as NumPy and Pandas
- Performed data visualizations using the Matplotlib and Seaborn libraries in Python
- Analyzed wound data using statistical analysis techniques such as regression analysis and hypothesis testing to draw insights

Agency for Science, Technology and Research (A*STAR),   May 2023 - Present
Machine Learning Intern
- Contributed to the Wound Healing Prediction with Machine Learning project as part of a joint attachment with A*STAR and SRIS

- Developed predictive models using machine learning algorithms such as kNN, logistic regression, Naive Bayes, Random Forest, XGboost, Gradient Boosting, and LightGBM
- Utilized Python libraries including scikit-learn, Keras, and TensorFlow for model development and training

Economics Development Board Investment (EDBI), Data Analyst and Corporate Planning Intern   Nov 2022 - Feb 2023
- Developed and maintained KPI reports to track progress against specific EDBI goals
- Conducted trend analysis to identify potential areas of growth for EDBI and provided insights and recommendations to senior management based on data analysis
- Researched and analysed data to implement data-driven solutions to support corporate planning initiatives with data visualisation

NUS AI In Healthcare Datathon, Contestant   Dec 2022 - Dec 2022
- Created statistical analysis using R and Python to find the optimal temperature range for ICU patients
- Analysed using the Generalized Additive Model (GAM) to pinpoint optimal range
- Created a predictive model to forecast inpatient length of stay using machine learning techniques

LEADERSHIP EXPERIENCE

42nd Science Club Management Committee, President   Sep 2021 - Sep 2022
- Planned and led a total of 54 faculty-wide events with 183 subcommittee members to enhance student life in NUS Faculty of Science
- Represented Science students in the NUS Student Union meeting with all faculty Presidents in NUS to enact NUS-wide initiatives such as implementing P-Card for large transactions to improve constituent club financial processes
- Planned and organized club meetings and discussions to improve student life in Faculty of Science

34th Anderson Junior College Students' Council, President   May 2017 - Sep 2018
- Initiated planning of over 20 school events together with 27 council members to serve 1,200 students in Anderson JC
- Spearheaded various functions representing AJC such as inter-school council meeting and presidential forums for leadership
- Planned the merged orientation with Serangoon JC for 1,000 incoming J1s for the new Anderson Serangoon JC

AWARDS AND SCHOLARSHIP

- The 23rd NUS School of Computing Term Project Showcase (STePS) (Gold Award), 2023
- NUS Community Impact (Mid-Term) Scholarship, 2023
- NUS Student Life Award for Leadership Excellence (Distinction), 2022
- National Young Leaders Award (Merit), 2019
- Anderson Junior College's Valedictorian, 2018