Nisirui An

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SKILLS AND CERTIFICATIONS

Certifications: AWS Certified Cloud Practitioner
Programming: Python, SQL, JavaScript, HTML, CSS
Technologies: Git, Linux, Docker, AWS Services (S3, Lambda, EC2, DynamoDB, etc), Power BI, Tableau, Microsoft Office Suite

EDUCATION

University College Dublin   Dublin, Ireland
MSc Information Systems   *Sep 2023 – Dec 2024*

- Key Modules: Relational Databases & Information Systems, Quantitative Data Analysis, Machine Learning, Informatics, Foundations & AI, Ethics & Auditing

Xi'an University of Architecture and Technology   Xi'an, China
BEng Landscape Architecture   *Sep 2018 – Jul 2023*

PROJECTS

Personal Website | *Python, DynamoDB, Lambda, API Gateway, S3, CloudFront, Javascript, HTML, CSS*

- Developed a personal site using **HTML**, **CSS** and **JavaScript**, deployed on **S3** and served with **CloudFront**.
- Implemented a **visitor counter** using JavaScript, DynamoDB, and an API built with API Gateway and Lambda
- Used Python and the Boto3 library to write **Lambda** functions for database interactions and integrated tests.

News Classification ML project | *Python, Pandas, Numpy, PyTorch, Scikit-learn, Seaborn*

- Processed 100k+ news entries using Pandas and NumPy and improved data quality for ML model training.
- Trained models (Random Forest, Naive Bayes, CNN) with PyTorch, achieving **85% accuracy** via hyperparameter tuning and integrating transformers for NLP tasks.
- Visualized data and model metrics with **Matplotlib** and **Seaborn** which uncovered trends for complex categories.

EXPERIENCE

Data Analyst   Feb 2025 – Present
Peroptyx   *Dublin, Ireland*

- Verified mapping data for critical navigation applications and ensured navigation routes and point of interests (POIs) were accurate and reliable.
- Identified and resolved discrepancies in machine learning (ML) generated responses which **significantly reduced model error rates**.
- Carried out **ISO-certified Standard Operating Procedures** and maintained rigorous quality standards for data processing workflows.

GIS Data Analyst Intern   May 2022 – Jul 2022
Shaanxi Institute of Urban & Rural Planning and Design   *Xi'an, China*

- Created dynamic dashboards with **Power BI** and presented actionable insights that improved resource allocation efficiency using PowerPoint.
- Built 3D regional models with **ArcGIS** and designed **street optimization plans** using traffic flow data.
- Collaborated with team members to develop detailed reports with optimized regional plans resulting in clear and actionable recommendations for government agencies.

Data Analyst Intern   May 2020 – Aug 2020
TAL Education Group   *Xi'an, China*

- Scraped TikTok shops data using **Python** scripts, and created shop comparison dashboards with **PowerBI**.
- Increased unique website visitors by identifying and analyzing high-impact keywords from **2,000+ trending TikTok video titles**.
- Collaborated with data engineers to develop automated data pipelines and data cleansing scripts, resulting in **improved data quality** for a machine learning model that analyzes TikTok advertisement performance metrics.