

Yu Shi Jie

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EDUCATION

National University of Singapore

Expected to graduate with Bachelor of Science in Business Analytics

Singapore

Aug 2020 – May 2024

EXPERIENCE

Data Analytics Intern

May 2022 – Oct 2022

Autodesk

Singapore

- Performed data exploration with Qubole and Amazon EMR
- Designed interactive Looker dashboards to communicate key business insights to higher management
- Built, scheduled and monitored Big Data ETL workflows with pySpark, Jenkins and Airflow
- Performed predictive analysis on software metrics using Python ML libraries (Statsmodel, Scikit-learn)
- Trained deep learning model using Google Colab and Tensorflow to predict software metrics, eventually achieving an accuracy above 90 percent

Student Researcher

Mar 2022 – Present

AI Singapore

Singapore

- Develop a full-stack web application with NextJS and MongoDB
- Create a repository for organizations and papers on AI governance with dynamic search and filter options
- Visualize trends in AI governance research with Amcharts

PROJECTS

Covvizzes | React, NextJS, Pandas, AWS, Github API, Amcharts

Jun 2020 – present

- Developed a full-stack NextJS web application for visualizing covid-19 trends and data
- Extracted raw data provided by John Hopkins University with pandas and eventually loaded the transformed data into a GitHub repository using GitHub API
- Scheduled Extract-Transform-Load workflow to run daily using Amazon Lambda and Amazon EventBridge
- Designed a REST API service to serve data to end users

SocialShield | Python, Django, React, IBM Watson

Aug 2016 – Dec 2016

- Developed a Chrome browser extension which filters harmful social media content using NLP
- Awarded multiple accolades in national and regional infocomm competitions (e.g. APICTA)
- Published on GitHub as contribution to the open-source community

parsERC20 | EthersJS, ExpressJS, NodeJS, Etherscan API

Jun 2021 – Dec 2021

- Developed a Web3 tool built with ExpressJS
- Designed a REST API service that programmatically retrieves current and historical ERC20 tokens owned by an Ethereum account by parsing historical transactions using the Etherscan API
- Added support for the Binance Smart Chain (BSC) network

PixelProtocol | NextJS, Solidity, Moralis, Hardhat, SocketIO, EthersJS

May 2022 – present

- Developed an NFT-based decentralized application for Chainlink Spring Hackathon 2022 for users to add pixels to a 1000 by 1000 public canvas
- Wrote smart contracts in solidity and performed unit testing with Hardhat
- Developed Web3 frontend using Moralis
- Utilized EthersJS to query the canvas state from the Ethereum blockchain in the backend
- Designed a SocketIO architecture for communication between frontend and backend

AWARDS

Asia Pacific ICT Alliance (APICTA) Awards

Merit

IMDA NIC Face-Off App Development

1st

Splash Awards

1st

IMDA NIC Face-Off Data Analytics

2nd

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript/Typescript, R, Rust, Solidity

Frameworks: React, Vue, Flask, NextJS, ExpressJS, Truffle

Developer Tools: Git, Docker, Jupyter, Airflow, AWS, Google Colab

Libraries: Numpy, Pandas, Statsmodels, Scikit-learn, Seaborn, Matplotlib, Keras, Amcharts, EthersJS, Tensorflow