

SIDDHARTH SINGH

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EXPERIENCE

Solution Developer – Part Time

Feb 2023 – Present

Keppel Digi (Singapore)

- Implemented clustering models and specialized algorithms using location data to find optimal pickup points.
- Analyzed clusters to find efficient vehicle routes using Google OR-tools and Maps API leading to cost reduction.
- Crafted services for validating spreadsheets, updating database, generating reports and PowerBI visualization.
- Developed desktop application using Electron for ship reports submission and tracking with offline functionality.

Solution Developer – Full Time

Mar 2020 – Dec 2022

Keppel FELS (Singapore), Keppel Offshore and Marine Engineering Mumbai (India)

- Developed Python scripts to automate data collection and daily update of KPI dashboards and generate reports.
- Created dashboards to visualize ship's IOT and user input data to enhance status tracking and transparency.
- Constructed full stack progressive web apps using ReactJS, NodeJS, and PostgreSQL to support ship operation.
- Designed cross-platform application by utilizing Google AppSheet and third-party tools to digitalize processes.
- Mentored interns, enabling them to use in-house tools to automate processes for ongoing digitization initiative.

EDUCATION

Singapore Management University

Jan 2023 – Apr 2023

Masters in IT in Business (Artificial Intelligence) – 3.43/4.00 (GPA)

- Relevant Coursework – Visual Analytics & Applications, Applied Machine Learning, Recommender Systems, Deep Learning for Visual Recognition, Python Programming & Data Analysis, Introduction to Reinforcement Learning, Blockchain Technology.

University of Wollongong, Singapore Institute of Management

Jul 2017 – Dec 2019

Bachelor of Computer Science (Digital System Security) – 84.2/100 (WAM)

- Dean's Merit Award 2017 – For achieving a WAM of 85 and above.
- Relevant Coursework – Algorithms and Data Structures, Database Systems.

PSB Academy

Jul 2016 – Apr 2017

Diploma in Infocomm. Technology – 3.90/4.00 (GPA)

- Scholarship Award 2016 – PSB Academy Scholarship Test.
- Relevant Coursework – Data Communication and Networking, Database Design and Modelling.

ACADEMIC PROJECTS

Red Bear Racing Agent

Aug 2023 – Oct 2023

- Trained reinforcement learning agent with different methods like epsilon-greedy, deep q-network etc. that learns from environment's weather condition to optimize tyre selection at every lap for best results.

Toxic Content Prediction

Apr 2023 – Jun 2023

- Developed toxic content prediction model to compare results of different methods like LSTM, Transformer etc.

Game Recommender

Apr 2023 – Jun 2023

- Built a recommender system on cornac library to implement methods like EASE, VBPR, Milvus Vector Similarity on game images available on Steam library and recommend games based on user's past choices.

Diabetes Prediction with Model Deployment

Apr 2023 – Jun 2023

- Used AWS SageMaker to demonstrate end-to-end pipeline that can train, deploy, test, and maintain registry for Diabetes Prediction Model which can be triggered manually or based on event.

SKILLS

Programming Languages: Python, R, Java, C++, C#

Visualization Tools: Tableau, Power BI

Database: MSSQL, PostgreSQL, MongoDB, AWS DynamoDB, Firebase Firestore

Web: NextJS, ReactJS, NodeJS, JavaScript, HTML, CSS, Tailwind, Bootstrap, Material-UI, AWS