SIDDHARTH SINGH

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EXPERIENCE

Solution Developer – Part Time   **Feb 2023 – Present**
Keppel Digi (Singapore)
- Optimized routing solutions with Google OR-Tools and Clustering for vehicles using Python.
- Enabled backend services to review spreadsheet and update data for reports and visualization.
- Developed desktop application using Electron for ships reports submission and tracking.

Solution Developer – Full Time   **Mar 2020 – Dec 2022**
Keppel FELS (Singapore), Keppel Offshore and Marine Engineering Mumbai (India)
- Developed Python scripts to automate daily update of KPI dashboards and generate reports.
- Implemented dashboards to visualize ship's IOT data along with status tracking and report submissions.
- Build full stack progressive web apps using ReactJS, NodeJS, and PostgreSQL / MSSQL.
- Developed cross platform applications using Google AppSheet and custom-built development tools.
- Guided and mentored interns to make use of development platform 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**
- Build 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, Java, C++, C#
Visualization Tools: Tableau, Power BI
Web: NextJS, ReactJS, NodeJS, JavaScript, HTML, CSS, AWS
Database: MSSQL, PostgreSQL, MongoDB, AWS DynamoDB, Firebase Firestore

HOBBIES

- Bowling, Cricket, Badminton, Cooking