LAWRENCE KEVIN

klken26.github.io/kevin-portfolio/·+6591817049·klken26@gmail.com·linkedin.com/in/kevin-lawrence-csd/

Software Engineer with experience in Machine Learning, Networking, Applications Development and full-stack development with enthusiasm in cryptography and network security.

PROFESSIONAL EXPERIENCE

Machine Learning R&D Engineer Intern — DSO National Laboratories, Singapore [Aug 202]

[Aug 2022] — [Dec 2022]

- Researched on cutting-edge RL model paradigms such as Fully Observable Markov
 Decision Process (FOMDP) (Q-Learning, SARSA), POMDPs (Deep Recurrent Q- Learning
 Process) and other models (Multiagent MDPs and Dynamic State MDPs) for the purpose of
 overcoming jamming in the context of battlefield communications.
- Accomplished faster and better training accuracy, up to 30% more accurate compared to conventional statistical modeling methods using FOMDP (Deep Q-Learning) models

PROJECTS

PyTorrent - BitTorrent Client Recreation

- Peer-to-peer networking application created to download .torrent files
- Led a team of 4, Implemented 3+ features such as leeching, multi-threading, hash checksum, via HTTP requests for safe downloading. Developed in C and Python.

TeacherSpace - https://github.com/Vemrthiss/TeachersSpace

- A Teacher Privacy cum Scheduler Application intended to provide uninterrupted off-work hours.
- Collaborated in a team of 5 and Implemented 3+ features such as queue noSQL FireBase database to handle student bookings with in-built calendar, log-in system and in-built messaging system using Java

Hotel Booking Web System - https://github.com/klken26/final_ESC_project

- led a team of 4 to deploy feature-packed booking system with 5+ features such as search
 with API Query, search filtering, text input recognition, in-built map viewing, form checkout submission
- Web-app uses noSQL Firebase storage to handle credit card information safely
- Created using ReactJS, MongoDB, HTML & CSS.

EDUCATION

Singapore University of Technology & Design (SUTD) - Singapore

[2020] - [2024]

Bachelor's of Engineering

 Computer Science & Design - Bachelor's Degree in Engineering Concentrations: Artificial Intelligence Track, Minor in Digital Humanities

SKILLS

Skills: Proficient with JavaScript, Python, Tensorflow & Keras, Pytorch, HTML & CSS, MongoDB, jQuery, Java, ReactJS, C, Assembly, Unix-Shell Usage, No-SQL database services (Firestore), Operating Systems, Task Management, Project Management, Optimisation, APIs, Software Design