# LAWRENCE KEVIN

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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 [A

[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 check-out 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:
- **Cybersecurity** Specialisation Track
- Minor in Artificial Intelligence, 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