

Eugene Lek

Full-Stack Developer

I wish to use my technological skills and expertise to make a positive impact on lives, especially the less fortunate



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github.com/Eugene-Lek

SKILLS

JavaScript

Python

Golang

HTML

CSS

PostgreSQL

React

Next.js

NodeJS

Express.js

Git

Docker

Kubernetes

Authentication

Access Control

Logging

TECH EXPERIENCE

30th Singapore Combat Engineers, Singapore Armed Forces

Full-Stack Web Developer/HR assistant

May 2022 – Nov 2023

MC Record Extractor

- Developed an algorithm that extracts Sick Leave records from structured Incident Reports (IR) and adds them to a Google Sheets database.
- This algorithm freed up precious time for other HR tasks and removed human error from the equation.

MC Reminder Sender

- Built a desktop application that automates the process of sending WhatsApp messages to individuals who had taken Sick Leave to remind them to upload their MCs to NS portal.
- This eliminated the issue of late Medical Certificate submissions.

Transcript & Testimonial Template Generator

- Built a web application that generates a template based on a person's appointments, achievements, and contributions.
- This not only made Transcripts and Testimonials well-organized, but also reminded writers to back up claims of character traits with specific examples, making them more authentic.

Bioinformatics Institute, A*STAR

Artificial Intelligence Research Intern

April 2020 – March 2021

- Integrated the U-net architecture into that of Variational Autoencoders to build a probabilistically rigorous neural network designed to enhance the resolution of pathology images.
- Won the **Silver Award** (top 10%) at the Singapore Science and Engineering Fair 2021 (Main Category) with this project.

Science Program for the Education of Aspiring Researchers (SPEAR), Fairfield Methodist School (Secondary)

Student Researcher

November 2017 – January 2018

- Developed a Naïve Bayes Classifier, enhanced by a pre-trained Sentiment Analysis model, to detect angry sentiment in text messages.
- Won the **Junior Scientist Award** (top award) at the Singapore Science and Engineering Fair 2018 (Junior Scientists Category) with this project.

AWARDS

Singapore Science and Engineering Fair (SSEF)

- **Silver Award** (top 10%) at SSEF 2021 (Main Category)
- **Junior Scientist Award** (top award) at SSEF 2018 (Junior Scientist Category)
- **Junior Scientist Award** (top award) at SSEF 2017 (Junior Scientist Category)
- **Broadcom MASTERS International 2017** — Selected to represent Singapore on the international stage at event that saw budding student researchers from across the globe come together for a week of activities and learning. I was selected due to my performance at SSEF 2017.

Singapore Junior Olympiads

- **Gold Award** for the Singapore Junior Chemistry Olympiad 2019
- **Silver Award** for the Singapore Junior Physics Olympiad 2019

Others

- **Lee Kuan Yew Award for Mathematics and Science** in 2020
- **A*STAR Science Award (JC)** and **A*STAR Science Award (Upper Sec)**
- **Lily Loh Book Prize**, awarded to the top student for Economics in the GCE 'A' Level Examinations 2021
- **Lim Choon Mong Award (Science)**, awarded to the top science student at the 2020 ACJC Promotional Exams.

EDUCATION

National University of Singapore

Computer Science

August 2024 – August 2028

Anglo Chinese Junior Collage

6 Distinctions, including in H3 Economics (Game Theory)

January 2020 – December 2021

Fairfield Methodist School (Secondary)

8 A1s

January 2016 – December 2019