

Kok Shan Jin

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Projects

AI Job Matching Platform | *Python, NLP, OpenAI API, Flask, Machine Learning* April 2025

- Developed a resume-to-job matching system that parses applicant resumes, extracts skills/experience, and matches them to job listings with a relevance score.
- Implemented NLP pipelines (keyword extraction, semantic similarity, TF-IDF + embeddings) to analyse resumes and job descriptions.
- Integrated OpenAI API to generate personalized cover letters for applicants.

AI Android Fitness Application | *Android Studio, Kotlin, ML, ARCore, Google ML Kit* Mar 2025

- Built a full-featured Android app to help users improve IPPT performance using AI pose detection, augmented reality, and GPS-based tracking.
- Implemented Google ML Kit to detect correct form and count reps for sit-ups and push-ups, with real-time feedback mimicking IPPT test conditions.

Personal Portfolio Website | *HTML, CSS3, JavaScript (Vanilla JS)* July 2025

- Developed and deployed a personal portfolio website to showcase projects and activities

Education

Singapore Institute of Technology Aug 2023 – Aug 2027

*Bachelor of Engineering, Information and Communications Technology,
Majoring in Software Engineering*

Republic Polytechnic Apr 2018 – Apr 2021

Diploma in Information Technology

Work Experience

NEC Asia Pacific Pte Ltd | Assistant Engineer Feb 2021 – Apr 2021

- Enhanced company's inventory management system by developing a mobile application for real-time inventory tracking.
- Designed user-friendly interface application with push notifications and barcode scanning capabilities.
- Streamlined inventory processes and collaborated with team members for app usability.
- Conducted extensive testing to ensure reliability and efficiency.

NEC Asia Pacific Pte Ltd | Application Developer Sep 2020 – Jan 2021

- Designed and developed inventory management website for company, focusing on seamless tracking of inventory movement.
- Collaborated with stakeholders to translate operational requirements into user-friendly digital solutions
- Implemented key features like inventory tracking, automated notifications and usage analytics to optimize operations.

Activities & Involvement

Tech Mentor - National Youth Tech Championship July 2025

- Featured in The Straits Times for mentoring students to program AI drones in Python during a tech challenge organised by IMDA and Google Cloud

NUS Guru AI Innovation Hackathon Challenge Certificate of Excellence April 2025

- Developed an AI Job matching web application using OpenAI API.

Orientation Leader, Helix Event <ul style="list-style-type: none">Guided and mentored freshmen to foster an inclusive environment.	Aug 2024
DSTA BrainHack Hackathon <ul style="list-style-type: none">Created a mobile application architecture and wireframe prototype.	July 2024
SIT Handball Varsity Player <ul style="list-style-type: none">Competed with multiple universities and polytechnics in Handball competition.	Sep 2023
Volunteer – Hope Worldwide Singapore (HWWS) <ul style="list-style-type: none">Distributed care packs to families in need.	Aug 2023

Technical Skills

Languages: Python, Java, JavaScript, Kotlin, C, C++, HTML5, CSS3
Frameworks & Libraries : React, Angular, Node.js, Flask, Express.js, SQLAlchemy, Jetpack Compose, ARCore
Databases: SQL (MySQL, NoSQL, PostgreSQL, SQLite)
Tools & Platforms: Git, GitHub, VsCode, Andriod Studio, Docker, Postman, Agile/Scrum
Cloud & Deployment: Google Cloud, Vercel, GitHub Pages
Specialised Areas: NLP (TF-IDF, embeddings), OpenAI API, AI/ML