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 AP.

Orientation Leader, Helix Event   Aug 2024
  • Guided and mentored freshmen to foster an inclusive environment.

DSTA BrainHack Hackathon   July 2024
  • Created a mobile application architecture and wireframe prototype.

SIT Handball | Varsity Player   Sep 2023
  • Competed with multiple universities and polytechnics in Handball competition.

Volunteer – Hope Worldwide Singapore (HWWS)   Aug 2023
  • Distributed care packs to families in need.

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