

# Kok Shan Jin

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## Projects

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- 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

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- 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

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- 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

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- 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.

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

## Technical Skills

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**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