

# Ng Kok Jing

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## EDUCATION

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### Singapore Management University

Bachelor of Science (Software Engineering)

Singapore

Expected Graduation, June 2028

- Cumulative GPA: 3.54 /4.0 (Cum Laude)
- Teaching Assistant - COR-IS1704 Computational Thinking and Programming (Python)
- Teaching Assistant - IS115 Algorithms and Programming

## EXPERIENCE

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### Devops Engineer Intern

June 2025 - August 2025

Infosys Limited

Bangalore, India

- Designed and implemented a **ROS** build environment in **RHEL 9** using **Docker**, to standardize development workflows and minimize setup inconsistencies.
- Configured custom **Docker networks** using **Docker Compose** to facilitate ROS node-to-node communication.
- Created comprehensive software architecture and process documentation of the ROS build environment using **PlantUML** and **MS Word**, reducing developer onboarding time and improving knowledge transfer across teams.

## TECHNICAL PROJECTS

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### Smart Student Attendance System | Coursework | JavaFX, jOOQ, SQLite, OpenCV | [GitHub](#)

- Collaborated in a team of 7 to develop a **JavaFX** desktop application that enrolls students, manages sessions, performs live face detection and recognition with **OpenCV** to auto-mark student attendance.
- Designed **SQLite** relational database schema, and implemented **CRUD** functionality using **JDBC** and **jOOQ**.

### NoteSync | Coursework | React, Tailwind CSS, Vite, Node.js, Firebase | [GitHub](#), [Website](#)

- Serving as the Technical Lead, overseeing the frontend architecture and development of a YouTube Timestamped Notes Platform that allows users to take time-synced notes while watching YouTube videos.
- Implemented **Google** and **GitHub OAuth** using **Firebase Authentication** for secure and seamless user login.
- Integrated the **YouTube Data API** with **Firebase Firestore** to enable video embedding, timestamp capture, direct playback from notes, and **real-time CRUD synchronization** across user sessions.
- Integrated a custom **Quill.js** text editor and **YouTube IFrame API** video player, enabling timestamped notes with dynamic toolbar control, HTML sanitization, and real-time sync through **Firebase**.

### PrivacyLens | TikTok TechJam 2025 | React Native, FastAPI, YOLO, OpenCV | [GitHub](#)

- Worked in a team of 5 to engineer a mobile app that automatically detects sensitive information (credit cards) in TikTok videos before upload and alerts users to potential risks, using **React Native** frontend and **Python FastAPI** backend with custom-trained **YOLO** models achieving **90%+** detection accuracy.
- Integrated frontend with custom YOLO models using **FastAPI** backend endpoints for real-time video analysis and generation of censored videos with selective blurring, implementing asynchronous processing and HTTP streaming.

## TECHNICAL SKILLS

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Languages & Frameworks: HTML, Tailwind CSS, React, Python, Express.js, Golang

Technologies: Git/GitHub, Linux, Docker, MySQL, MongoDB, Vite, Vercel, Firebase

## LEADERSHIP & INVOLVEMENT

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### SMU Artificial Intelligence Club | [Website](#)

May 2025 - Present

Programmes Lead

- Spearheading the design and execution of **AI-focused events**, including technical workshops and networking sessions, to enhance practical skills and industry engagement of **more than 500** club members.