# AKSHAY PRANAV

**Singapore PR**

**Email:** srakshaypranav19@gmail.com
**Mobile:** +658571 1840
**LinkedIn:** www.linkedin.com/in/akshay-pranav-a596b5316


Computer engineering student with collaborative hands-on skills, adept in autonomous robotics and software development. Always eager to embrace complex problems and learn emerging technologies. Deeply passionate about machine learning and AGI

## EDUCATION

**National University of Singapore (NUS)** **Aug 2024 – Present**

- Bachelor of Engineering (Honours) in Computer Engineering (GPA:4.71/5.0)

**Global Indian International School** **Jul 2020 – May 2022**

- International Baccalaureate (IB) 44/45 – Near Perfect Score
- IGCSE 9A*

## SKILLS SUMMARY

**Languages:** C, C++, Java, Python, SQL
**Frameworks:** Node.js, Pandas, NumPy, Scikit-learn, Matplotlib
**Tools:** Git, Docker, MATLAB, R, Excel
**Platform:** Vim, Linux, PyCharm, Visual Studio Code, IntelliJ IDEA
**Software:** MySQL, MongoDB, TensorFlow, Jupyter Notebook, AWS (EC2/S3)
**Others:** Embedded Systems, Raberry Pi, Bare-metal programming

## EXPERIENCE

**KPMG – Software Intern, DT Tech Risk Automation Team** **May 2025 – Aug 2025**

- **Product:** Deep learning–driven pipeline to parse policy documents, convert to OSCAL format, and generate summary reports for automated risk assessment and third-party compliance.
- **Software Development:** Developed front-end interfaces using React and back-end services with Django; integrated AI models into a unified web application.
- **AI & Testing:** Implemented model integration and conducted unit tests; documented testing procedures for continuous integration.

**Singapore Armed Forces** **Aug 2022 – Aug 2024**

- Successfully completed National Service, received very good conduct post completion

## PROJECTS

- **Intelligent Recruitment Assistant:** Developing TalentCruit AI, an end-to-end intelligent recruitment assistant that analyzes candidate resumes, predicts success scores using ML, and generates personalized SWOT analysis via LLMs. Engineering a full-stack solution using Flask, FastAPI, and React, integrating PDF parsing, vectorized scoring, and OpenAI-powered evaluations. Enabled real-time skill assessment and feedback delivery through modular APIs, enhancing recruiter decision-making with data-driven insights **(**May ’25 - Aug ’25)
- **Raspberry Pi–powered Rescue Mission Robot:** Built a rescue mission robot using LiDAR, Hector SLAM, and ROS to autonomously navigate obstacles, locate and transport victims in danger and deliver medical supplies **(**Apr ’25)
- **Microcontroller-Based Maze-Solving Robot:** Developed an autonomous mBot robot using PID control and KNN algorithm for maze navigation, integrating color sensors, IR sensors, and ultrasound sensors for real-time wall and color detection (Nov ’24)
- **Cryptocurrency exchange platform:** Delved into the foundations of OOP by developing a simplified cryptocurrency exchange platform in C++, implemented key data structures and algorithms, including buyer-seller matching algorithms and text tokenization to create an interactive user interface (Dec ’23)
- **ATM Workflow System:** Designed an ATM workflow system in Python, integrating MySQL for customer data management. Connect Python to a MySQL server via MAMP to handle real-time updates based on user inputs.
- Aircraft Trajectory Optimization (Feb ’23)
- **Aircraft Trajectory Optimization:** Conducted a high school research project (graded A) that mathematically modeled aircraft trajectories to minimize fuel consumption (May ’22)

## HONORS AND AWARDS

- Recipient of SINDA Excellency Award (2022), Dr. APJ Abdul Kalam award and Global Skills Scholarship award
- Completed numerous certifications such as Machine Learning Specialization (Coursera), MLexpert certification (AlgoExpert), and OOP specialization in C++ (Coursersa)