

# ARIFF MUHAMMED AHSAN HUSAIN

✉ ariffahsan@gmail.com | 📞 (+65) 90309106 | 🌐 github.com/Ariff1422 |

🌐 linkedin.com/in/ariff-muhammed-ahsan

## 👤 ABOUT

Motivated and curious computer engineering student with a strong interest in software development and emerging technologies. Passionate about problem-solving and eager to learn about cloud computing, AI applications, and agile methodologies. A proactive team player with a keen desire to grow through hands-on experience in a dynamic and collaborative environment.

## 🎓 EDUCATION

### National University of Singapore

Aug 2024 – Present

Bachelor of Engineering in Computer Engineering, Honours

Singapore

- **CGPA: 4.64/5.0, Minor in Data Analytics**
- Relevant Courses Completed: Engineering Principles and Practices, Data Structures and Algorithms
- Expected Date of Graduation: May 2028

## 💼 WORK EXPERIENCE

### Floral Horizon (Career Contact)

Nov 2020 – Dec 2020

UX/UI Designer

Singapore

- Gained foundational knowledge in UX/UI Design through mentorship from industry professionals
- Enhanced Instagram page of SME Floral Horizon, driving improved brand presence and engagement by 200%

## 💡 PROJECTS

### Personal Portfolio Website

Feb 2025

Singapore

- Designed and developed a personal portfolio website to showcase projects, skills, and experiences in computer engineering, software development, and UX/UI design
- Built using React with Vite for fast performance, leveraging Tailwind CSS for modern styling and responsive design
- Implemented an interactive and structured UI to highlight work in programming and robotics
- Deployed the website on Netlify for reliability and fast global access
- Maintained and updated content regularly to reflect ongoing projects and professional growth

### Pawgress – Personal Task Manager with Virtual Pet Companion

Jan 2025

Developed during NUS HacknRoll 2025

Singapore

- Integrated task management with a virtual pet to enhance user engagement and productivity
- Utilized Vite for fast bundling and development, ensuring high performance
- Leveraged React and Tailwind CSS for a responsive and dynamic user interface, ensuring an enjoyable user experience
- Built the backend using SQLite for effective data storage and management

### Autonomous Maze Navigation with mBot

Sep 2024 – Nov 2024

CG1111A Project

Singapore

- Designed and implemented an autonomous mBot for maze navigation, integrating Arduino programming, circuit design, and advanced algorithms
- Utilized color, IR, and ultrasonic sensors for path detection, positioning, and obstacle avoidance
- Developed PID control for precise wall tracking and dynamic steering
- Applied k-nearest neighbors (k-NN) to enhance color sensor accuracy and path optimization

## 🏆 AWARDS

NUS Hack&Roll Hackathon (2025): Quacker's Commendation Top 15 Award for Innovation

## 🔧 SKILLS

- **Languages:** English (Proficient), Tamil (Native)
- **Programming:** C, C++, Python (Framework(s): Flask)
- **Database Management:** SQL, PostgreSQL
- **Other Skills:** Time Management, Critical Thinking, UX/UI Design (Figma, Canva)