

# ROSHAN KHAN.F

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## Objective

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Aspiring computer science graduate with hands-on experience in cloud computing, software development, and data analysis. Seeking opportunities to contribute to innovative tech projects and enhance problem-solving skills

## Education

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**Sahrdaya College of Engineering and Technology**

**May 2021 – Jun 2025**

*B.Tech in Computer Science and Engineering*

*Kodakara, Kerala*

## Projects

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**Blind Sight** — *Java, Android Studio, Flask, Voice Recognition API, TTS*

**Nov 2024**

- Engineered an AI-driven assistive application featuring OCR, currency recognition, and emergency SOS alerts specifically designed to enhance the daily lives of visually impaired users across diverse environments.
- Implemented real-time voice-command interaction and audio feedback using the Voice Recognition API and TTS, improving accessibility and user experience.

**Medicine Reminder App** — *Java, Android Studio*

**Feb 2023**

- Engineered a smart medication tracking system with automated reminders and push notifications, improving adherence by 30%.
- Designed a user-friendly interface with real-time medication history tracking, streamlining health monitoring for users.

**Autonomous Floor Cleaning Robot** — *C, Arduino, Robotics*

**Jan 2022**

- Developed an intelligent floor-cleaning robot with IR and ultrasonic sensors for advanced obstacle detection and autonomous navigation.
- Implemented a dual-mode cleaning system with optimized wet and dry mopping capabilities, enhancing efficiency across multiple surfaces.

## Internships

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**Tech By Heart**

**May 2023**

*AWS Intern*

*Bangalore*

- Automated resource provisioning using AWS CloudFormation, reducing manual deployment time by 40% and improving resource efficiency.
- Designed and deployed a scalable cloud-native architecture that improved system reliability by 30% and reduced downtime incidents.

**River Tech**

**May 2022**

*Python and Flask Intern*

*Kochi, Kerala*

- Engineered a Flask-based web application that handled 10,000+ user requests per month, improving system responsiveness by 25%.
- Integrated and optimized RESTful APIs, reducing data retrieval time by 35% and enhancing backend performance.
- Enhanced code maintainability by implementing structured code reviews and best practices in Git, reducing production bugs by 20%.

## Technical Skills

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- Programming Languages:** Java, Python (Basic), C, SQL, HTML/CSS
- Cloud & Data Analytics:** AWS (EC2, S3, Lambda), Power BI, Excel
- Development & Tools:** Android Studio, VS Code, GitHub, Figma, WordPress
- Soft Skills:** Problem-Solving, Team Collaboration, Communication