

Karthik Mohan

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SKILLS

Programming Languages: Java, C, C++, Python

Web Technologies: HTML5, CSS

Databases: SQL, NoSQL, DBMS

Cloud Computing: Microsoft Azure

AI and Machine Learning: Artificial Intelligence, Deep Learning, Convolutional Neural Networks, Image Processing, OpenCV

Cybersecurity Skills: Cybersecurity

IoT and GPS Technologies: Internet of Things, GPS

Database Connectivity: JDBC

Server Management: Server Essentials

WORK EXPERIENCE

BÖRGWARNER

Graduate Engineer Trainee

Oct 2023 - Present

Chennai, TN

- Developed and maintained **full stack web applications** using modern technologies.
- Collaborated with cross-functional teams to gather and analyze **user requirements**.
- Implemented responsive **UI/UX designs** to enhance user experience.
- Optimized application performance through **code reviews** and debugging.
- Integrated third-party APIs to expand application functionality and **improve user engagement**.
- Wrote and maintained **technical documentation** for future reference and onboarding.
- Managed version control and deployment processes using **Git** and **CI/CD pipelines**.

PROJECTS

DISASTER RESCUE OPERATION USING SENSORS GPS MODULE, Panimalar Engineering College Jan 2022 - May 2022

Technologies: IoT, GPS

- Developed **smart helmet prototype** for **mining disaster rescue operations**, integrating **sensors, IoT**, and **GPS modules**.
- Enhanced safety by implementing features such as **two-way communication, hazardous gas detection**, and **collision notifications**, increasing the rescue rate by **58%**.
- Monitored **environmental conditions** and provided **real-time GPS tracking** for efficient disaster response with **70% accuracy** using live tracking systems connected to **IoT**.

AN OPEN CV BASED PERSONAL ROBOT CARE FOR ELDERLY, Panimalar Engineering College Jan 2023 - Apr 2023

Technologies: OpenCV

- Developed an **OpenCV-based personal robot care system** to enhance care and support for elderly individuals.
- Applied **computer vision technology** to understand needs, recognize faces and gestures, and assist with daily activities, promoting well-being and independence.
- Integrated features like **fall detection and remote monitoring** to ensure the safety of elderly users.

PUBLICATIONS

Frequency Stabilization of isolated and Grid connected Hybrid Grid Model

IJNRD, May 2022

EDUCATION

Bachelor of Engineering

Panimalar Engineering College, CGPA 8.8/10

Graduation Date: May 2023