

GEETHIKA G NAIR
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SKILLS

- ❖ **Programming Languages :**Java, Python, C, C++, Haskell, JavaScript, HTML, CSS
- ❖ **Core Computer Science :**Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks
- ❖ **Web Development:** React.js, Node.js, Express.js, Front-End Development, Responsive Design
- ❖ **Database Technologies :**MySQL, MongoDB

EDUCATION

- ❖ Computer Engineering | Amrita Vishwa Vidyapeetham, Coimbatore
CGPA: 8.06 | (July '23 - Aug '27)
- ❖ XII (CBSE) | Bharatiya Vidya Bhavan, Kozhikode 87.8% | 2023
- ❖ X (CBSE) | Bharatiya Vidya Bhavan, Kozhikode 95.8% | 2021

ACADEMIC PROJECTS

- ❖ **IoT-Based Edge System Simulation for Industrial Tracking**
Built a Python simulation of an IoT edge–cloud system using Wi-Fi RSSI (Kalman + KNN), A* pathfinding, and SimPy scheduling to analyze latency and accuracy; created a Flask dashboard for real-time tracking.
Tech: Python, SimPy, Flask, MQTT, KNN, A*, Kalman Filter
- ❖ **PetPal - Pet Care & Adoption Website**
Developed a web platform that highlights available pets for adoption, offers detailed guidance through the adoption process, and features a curated marketplace of high-quality pet food and supplies.
Tech: HTML, CSS, JavaScript
- ❖ **Proximity Sensor Alarm System – STM32F4**
Developed an ultrasonic proximity alert system on STM32F401 with I²C LCD, SysTick interrupts, and GPIO alerts, enabling fast and reliable distance detection.
Tech: STM32F4, Embedded C, HC-SR04, I²C, SysTick, GPIO

ACHIEVEMENTS / HOBBIES

- ❖ Completed AWS Cloud Engineer course (CIR, Amrita University & AWS Academy).
(Aug '24 - Mar '25)
- ❖ Member of college classical dance team (NatyaSudha). (Dec '23 - Present)