GEETHIKA G NAIR

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 @geethikagnair   /geethikagnair

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: *7.9 | (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 I^2C LCD, SysTick interrupts, and GPIO alerts, enabling fast and reliable distance detection.
   Tech: STM32F4, Embedded C, HC-SR04, I^2C, 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)*