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: *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
- **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
- **Interactive Attendance Management System – Arduino**
  Created a keypad-based attendance system with passcode verification, LCD feedback, LED indicators, and timeout handling for secure logging.
  Tech: Arduino, Embedded C, Keypad, LCD, Structs & Arrays

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)*