

## 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 I<sup>2</sup>C LCD, SysTick interrupts, and GPIO alerts, enabling fast and reliable distance detection.  
**Tech:** STM32F4, Embedded C, HC-SR04, I<sup>2</sup>C, 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)