

Amogh E M

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Education

PES University BTech in Computer Science (AIML)	<i>Bengaluru, India</i> Sept 2027 GPA: 8.19/10.0
Coursework: Software Engineering, Object-Oriented Programming, Data Structures & Algorithms, Networks, Discrete Math, Linear Algebra, Probability & Statistics, Calculus	

Skills

Languages: C/C++, Python, Java, JavaScript/TypeScript, HTML/CSS, SQL/noSQL, Solidity
Tools: Git/GitHub, Unix/Linux, Flask, React, Next.js, Nest.js, django, FastAPI, Docker

Experience

ISFCR PESU <i>Technical and CTF team member</i>	<i>Bengaluru, India</i> Sept 2023 – Present
- Participating in several international and national-level CTFs as a part of PESU ISFCR.	
IEEE RAS <i>Web Developer</i>	<i>Bengaluru, India</i> Mar 2025 – Present
- Develop and manage websites for the club for various events. - Develop and contribute to projects done in the virtual lab.	
GCube <i>Game Programmer</i>	<i>Bengaluru, India</i> Feb 2025 – Present
- Develop and program scripts for games. - Develop and contribute to projects done in the virtual lab.	
Nexus <i>Web Developer</i>	<i>Bengaluru, India</i> Dec 2024 – Present
- Develop and manage websites for the club for various events. - Collaborate and Contribute to many projects done in the club.	

Projects

Eventor <i>TypeScript, HTML/CSS, Express (Node.js), websockets</i>	Feb 2025
- Built a real-time event management platform with React (TypeScript) and Node.js for seamless event creation and registration. - Integrated Socket.io for live attendee updates, instant notifications, and real-time event changes. - Developed JWT-based authentication and a MongoDB-backed API for secure user and event management.	
Stock Simulator <i>JavaScript, React, Express (Node.js) , Yahoo finance API</i>	
- Developed Stock Trainer , a stock market simulator using Yahoo Finance API for real-time data and virtual trading. - Implemented risk-free trading, watchlists, and portfolio tracking to help users practice investing. - Built advanced charting tools for technical analysis, enabling informed decision-making.	
ChatChain <i>sockets (python)</i>	Dec 2024 – Present
- A decentralized chat app that prioritizes privacy and security by utilizing peer-to-peer communication and end-to-end encryption . - The app eliminates the need for central servers, ensuring that users' messages and data remain fully private and secure, while offering real-time messaging and seamless user experience.	

Awards

Indomitus CTF MIT Manipal 2025	Mar 2025
- 5 th / 21 teams; Represented PES University in a national level CTF	
Optilink <i>opencv, dlib, gemini API</i>	Feb 2025
- 6 th / 342 teams, Genesys Hack 2025 - Developed an assistive typing application for ALS patients using eye movement tracking and AI-powered predictive text , enabling efficient and accessible text input. - Collaborated in building a real-time gaze detection system with dlib and OpenCV , allowing users to control text input through eye movements. - Integrated an emotion-based TTS feature and Google Gemini API for emotion detection and AI-driven text prediction , enhancing communication and typing efficiency.	
Code of Honour <i>opencv, keras, sklearn, websockets (python)</i>	Feb 2024
- 3 rd / 322 teams, Road safety Hack 2024 - Developed a road safety tool with drowsiness detection, accident SOS, and pothole detection , using OpenCV, Keras, and scikit-learn for real-time monitoring and alerts. - Collaborated in developing the accident detection model, SOS and handling of websockets .	

Extracurriculars

VALORANT Champions <i>Transcendence, SJCC 2024</i>	Aug 2024
- 1 st Place; Led the team with training plans, coordinating matches, etc.	