

Bhargav Mahanta

Guwahati, Assam, India | bhargavmahanta30@gmail.com | +91 7896508123
GitHub: bhargavmahanta | LinkedIn: Bhargav Mahanta

PROFESSIONAL SUMMARY

Computer Science undergraduate at Vellore Institute of Technology with experience building Node.js backend systems, REST APIs, and AI-powered applications. Strong foundation in data structures, algorithms, and scalable application design.

EDUCATION

Vellore Institute of Technology <i>Bachelor of Technology in Computer Science (Cyber Security)</i> - GPA: 9.31 - Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Systems - Honors: Runner-up, AI-Based Internal Hackathon; Merit List Recipient; Academic Excellence	Vellore, Tamil Nadu <i>Expected Graduation, May 2028</i>
Maharishi Vidya Mandir Senior Secondary School <i>High School Diploma</i> Grade: 96%	Guwahati, Assam <i>2021 – 2023</i>

PROJECTS

Closetify — AI-Powered Outfit Recommendation & AR Visualization Platform <i>Backend Lead</i> - Developed scalable Node.js REST APIs to manage user wardrobe metadata and outfit compatibility logic for AI-based recommendations. - Integrated AI-based clothing detection pipeline and structured metadata processing for automated wardrobe tagging. - Implemented secure authentication using Google OAuth + Firebase Authentication with MongoDB user mapping. - Collaborated on AR-based outfit visualization, enabling virtual try-on functionality. - Achieved Runner-up position in an internal AI hackathon among competing teams.	Vellore, Tamil Nadu <i>May – August 2025</i>
Echo — Real-Time Communication Platform <i>Software Engineering Project</i> - Developed a real-time messaging platform enabling instant user communication and interactive messaging features. - Implemented backend services using Node.js and REST APIs to manage user sessions, messaging workflows, and data storage. - Designed modular architecture separating routing, middleware, and service layers for scalability. - Integrated authentication and MongoDB database operations for secure user management and message storage. - Utilized Git-based version control and collaborative development practices during the project lifecycle.	Vellore, Tamil Nadu <i>December 2025 – Present</i>

SKILLS

Programming: C++, Java, Python, C, JavaScript (Node.js), Dart
Computer Science Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Systems
Platforms: Windows, Linux
Backend & Systems: REST APIs, Authentication (OAuth, JWT), Scalable API Design
Technologies: Flutter, MongoDB, Firebase Authentication, Git, GitHub
Languages: English, Hindi, Assamese, Japanese (Intermediate)
Problem Solving: Solved 100+ Data Structures & Algorithms problems across LeetCode and HackerRank, focusing on graphs, dynamic programming, and tree algorithms.
Software Development Practices: Git workflows, debugging, modular architecture, API testing
Areas of Interest: Backend development, API design, Authentication systems, Scalable application architecture

EXPERIENCE

IEEE Computer Society, VIT Vellore <i>Senior Core Member (App Development)</i> - Designed and developed Capture-The-Flag (CTF) cybersecurity challenges simulating real-world security vulnerabilities. - Collaborated on software development projects within the IEEE App Development team, contributing to feature implementation, testing, and debugging. - Contributed to organizing technical events, workshops, and developer activities for the student community.	Vellore, Tamil Nadu <i>May 2025 – Present</i>
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