

Jairaj R

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Career Objective

Motivated B.Tech Computer Science student with a strong interest in full-stack web development, artificial intelligence, and intelligent system design. Passionate about creating efficient, user-focused, and scalable web solutions while continuously improving backend logic and AI-driven integrations. We are committed to leveraging modern frameworks and tools to deliver reliable, innovative, and high-performance web applications.

Education

B.Tech in Computer Science and Engineering

2024 – Present

College of Engineering Trivandrum (CET), Kerala

Semester 1 SGPA: 8.87 Semester 2 SGPA: 9.03 **Current CGPA: 8.95 / 10**

Relevant Coursework: Artificial Intelligence, Data Structures and Algorithms, Machine Learning (Introductory), Cybersecurity Fundamentals, Computer Networks, Python for Scripting, Object-Oriented Programming

Technical Skills

- **Programming Languages:** Python, C, JavaScript, HTML, CSS (Advanced), C++, Java (Intermediate), SQL, Bash (Beginner)
- **AI Platforms and Tools:** Google AI Studio, OpenAI API, TensorFlow, ChatGPT, GitHub Copilot, Hugging Face Hub, Google Colab
- **Frameworks and Platforms:** Bolt.new, AI Pipelines, Model Prototyping, Web Integrations
- **Core Areas:** Data Structures and Algorithms, Problem Solving, Artificial Intelligence, Cybersecurity Fundamentals, Firewall Awareness, Network Security Basics
- **Developer Tools:** VS Code, Git, GitHub, LaTeX, SQLite, API Testing
- **Operating Systems:** Windows, Linux

Projects

AetherOS (Simulated Desktop OS Prototype)

2025

- Conceptualized and enhanced a simulated desktop OS that emphasizes clarity, focus, and emotional well-being
- Improved the user interface for an AI assistant and emotion-aware module, incorporating Python, API calls, and ML components for interactive functionality
- Core modules built including a command-line terminal, AI assistant, and focus-mode features using Python ML scripts
- The prototype was fully prototyped using Bolt.new, focusing on AI pipelines, interactive modules, and realistic simulation of OS behavior

Logistics & Delivery Management System (Java Swing + JDBC + SQLite)

2025

- Designed and engineered a logistics and delivery management system with a robust SQLite backend connected via JDBC for real-time data handling
- Incorporated CRUD operations, modular architecture, and database functionalities ensuring efficient and secure data management
- Developed an intuitive and responsive GUI using Java Swing, enabling smooth navigation and instant inventory and delivery updates

Hackathon Project at Dekathon 3.0 (STCET Alappuzha)

2024

- Collaborated in a 3-member agile team to design a prototype app for efficient e-waste management within 48 hours
- Incorporated AI-powered features using TensorFlow and Hugging Face models to accurately classify and categorize e-waste items
- Presented the final solution to industry experts, clearly communicating the technical workflow and the integration of AI/ML of the project

Mini Projects and Experiments

- Expanded AI-powered functionalities using Python, TensorFlow, and Hugging Face models including text classification, content summarization, and API-driven NLP capabilities
- Built additional prototypes focusing on AI pipeline development and interactive system design
- Created Python automation scripts to streamline file handling, data extraction, and ML model experimentation

Experience and Participation

- Contributed to interactive systems and front-end integration as a Technical Team Member at Glitch CET (Game Development Club), improving interface efficiency and responsiveness by 25%
- Actively involved in competitive programming on LeetCode and HackerRank, solving algorithmic problems using C++ and Python
- Mentored juniors on coding and AI projects, fostering teamwork, technical guidance, and peer learning

Certifications and Workshops

- Web Development and AI with TensorFlow – Dotslash'25 CET
- Solutions Challenge – Google Developer Group CET
- Python, Blender and MS Excel workshop – SAEIndia CET
- Useless Projects 1.0 and 2.0 – TinkerHub CET
- 2-Day Online Cybersecurity Bootcamp – Offenso Hacker's Academy
- Into the Airways workshop – CSCP CET

Achievements

- Enhanced and demonstrated AI-powered web prototypes that combine Python ML, Hugging Face models, and API pipelines
- Recognized for teamwork and problem-solving in competitive hackathon environments
- Maintained a high academic standing (CGPA 8.95), reflecting consistency and discipline

Soft Skills

- Analytical and Creative Problem Solving
- Agile Team Collaboration and Communication
- Curiosity-Driven Learning and Adaptability
- Project Management and Accountability

Interests

Web Development, Artificial Intelligence, Machine Learning, Cybersecurity, AI-driven Security, LangChain, Hugging Face, Software Development, Hackathons, Technology Trends, Photography