

Ayush Upadhyay

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY

B.Tech in Computer Science

Specialized in

Artificial intelligence and Machine learning

CGPA: 8.2

CHENNAI, TAMILNADU

Expected Graduation, JULY 2027

PROFILE INTRODUCTION

Ayush Upadhyay is a skilled professional in Software Systems with expertise in various programming languages, Agile Development, and Debugging Code. With a strong background in Information Technology, Object-Relational Mapping, and PHP, Ayush is responsible for designing software products and creating technical documents. Known for a strong ability to learn and excellent communication skills, Ayush excels in researching, troubleshooting, and working well under pressure.

PROFILE SUMMARY

Targeting **Full stack Developer** roles with an organization of high reputation with a scope of improving knowledge and further career growth.

- MERN stack (**MongoDB, Express.js, React, Node.js**) with a strong background in building scalable web applications
- Demonstrated ability to manage and deliver projects **efficiently**, from initial planning and design to final deployment and maintenance.
- Committed to **staying updated** with the **latest industry** trends and technologies, continuously enhancing skills to provide innovative solutions

PROJECTS

RASCADE.IN

Modern Hackathon website

June 2024- Current

Tools: HTML5, CSS3 (Tailwind CSS), JavaScript, React (Angular, Vue.js), Redux or Context API

TypeScript, Node.js, Express.js, Django, Ruby, NoSQL, Docker, Figma, OWASP (FULL MERN STACK)

Rascade.in is a cutting-edge hackathon platform designed to facilitate the organization and participation of hackathons. This full-stack project leverages a wide range of modern technologies to deliver a seamless and engaging user experience.

Key Responsibilities & Achievements:

- **Front-End Development:** Utilized HTML5 and CSS3, with Tailwind CSS for responsive and modern design. Built dynamic and interactive user interfaces using React, with the flexibility to incorporate Angular or Vue.js as needed. Managed state effectively with Redux or Context API, and ensured type safety with TypeScript. Implemented user authentication and authorization using Appwrite, ensuring secure access to the application.
- **DevOps & Deployment:** Containerized the application using Docker, streamlining the deployment process and ensuring consistent environments across development, testing, and production.
- **Back-End Development:** Developed robust back-end services using Node.js and Express.js, with experience in Django and Ruby for different project needs. Implemented RESTful APIs and integrated NoSQL databases to manage and store user data efficiently.
- **Design & UX:** Designed intuitive and user-friendly interfaces using Figma, focusing on an engaging user experience.
- **Security & Best Practices:** Adhered to OWASP guidelines to implement robust security measures, safeguarding user data and ensuring a secure platform.

Air Magic Canvas

Sept 2023 – Oct 2023

Tools Used: OpenCV, MediaPipe, HTML5, CSS3, JavaScript, Python, Node.js, TensorFlow.js, Three.js, Figma, Docker, Git, OAuth2, HTTPS. The Air Canvas Game is an innovative application that leverages computer vision and gesture recognition to allow users to draw and write in the air. This project uses advanced facial and hand tracking technology to create an interactive and immersive experience, similar to an advanced version of Scribble.

Key Responsibilities & Achievements:

- **Gesture Recognition:** Utilized machine learning and computer vision techniques to detect and track facial features, palms, and finger movements. This technology enables users to draw in the air using

hand gestures, making the experience intuitive and engaging. Implemented real-time exchange rate fetching using an external API for accurate currency conversions.

- **Multi-Color Drawing:** Implemented a feature allowing users to select different colors and brush sizes, enhancing the creative possibilities.
- **Real-Time Interaction:** Achieved low-latency, real-time interaction through efficient algorithms, providing a seamless user experience
- **User Interface & Experience:** Designed an intuitive UI that guides users through the setup process and provides clear visual feedback during interaction
- **Technology Stack:** The project combines computer vision frameworks like OpenCV or MediaPipe with front-end technologies such as HTML5, CSS3, and JavaScript. The back-end may include Python for machine learning models and Node.js for real-time processing.
- **Security & Privacy:** Implemented data privacy measures to ensure that facial and hand data are processed securely and are not stored without user consent. It also has a special privacy feature to Blackout the Background.

MyWay - Fitness App with AI Coach

Dec 2023

Tools Used: Kotlin, Android Studio, Node.js, Python, Figma, OAuth2, HTTPS, AI/ML frameworks, e-commerce platforms, and social media APIs.

MyWay is a comprehensive fitness app that helps users achieve their health and wellness goals through an AI-powered coach assistant. The app offers personalized workout plans, nutrition advice, and a wide range of other features to enhance the user's fitness journey.

Key Responsibilities & Achievements:

- **AI Coach Assistant:** Provides tailored fitness plans, exercises, and dietary suggestions based on user data. The AI adapts to user progress, offering real-time feedback and adjustments.
- **Health Social Media Community:** A platform for users to connect, share experiences, and support each other on their fitness journeys.
- **Marketplace:** Offers a variety of fitness-related products and services, from workout gear to nutrition supplements
- **Personalized Health Courses:** Features courses tailored to individual needs, with AI-driven recommendations for diet, exercise, and lifestyle improvements.
- **AI Magic Recommendations:** Utilizes advanced AI algorithms to suggest personalized health and wellness content, ensuring users receive the most relevant and effective guidance.
- **Technology Stack:** Developed using React Native for cross-platform functionality, Node.js for back-end services, and Python for AI and machine learning components.
- **Design & User Experience:** Created with a focus on user-friendly design using Figma, ensuring an intuitive and engaging experience.
- **Security & Privacy:** Ensures user data is protected with OAuth2 for secure authentication and HTTPS for encrypted data transmission.

ACADEMIC ACHIEVEMENTS

- Earned a certification in Full Stack Development, demonstrating proficiency in MERN stack technologies and project management.
- Led the college graphics designing team, organizing and managing various design projects and events, enhancing the team's creative output and visibility. Like (Microsoft club, IEEE club, Zerobugs Club, Association of Computer machinery, Enactus, Designers Club, Artificial intelligence club, ispace)

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, C++, C, Swift (iOS), Kotlin, MongoDB, MySQL, NoSQL,
Tools: Android Studio, IntelliJ, PyCharm, Eclipse, AWS, Git, Bootstrap, Spring Boot, Agile, GitHub

LANGUAGE KNOWN

- English, Hindi, Spanish, Korean, French