ATHARV DEWANGAN

Web Developer

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EDUCATION

Vellore Institute of Technology, Vellore   **Graduation: Aug 2026**
B.Tech - Information Technology   *CGPA: 8.66*

CERTIFICATION

- **AWS Solutions Architect Associate** ↗
- **AWS Certified Cloud Practitioner** ↗

PROJECT EXPERIENCE

Deployment Website ⌂ | AWS S3, Next.js, Tailwind, Express.js, TypeScript, Docker   **Sept 2024**
- Developed an automated deployment pipeline that clones repositories, builds projects, and uploads assets to AWS S3 for static website hosting.
- Configured AWS S3 bucket policies to enable secure static hosting and optimized access control settings.
- Planning to integrate Docker-based builds to enhance scalability, improve deployment consistency, and automate containerized environments.

Metaverse ⌂ ⌂ | React, Phaser.js, Go, WebSockets, WebRTC, PostgreSQL   **Nov 2024**
- Developed a **real-time virtual space** for remote collaboration, implementing spatial interactions similar to Gather.
- Utilized **Phaser.js**, a lightweight game engine, to create a **smooth 2D environment** with optimized physics, animations, and interactive world elements.
- Leveraged **Go** for its high concurrency capabilities, optimizing WebSockets to manage seamless user movement, state synchronization, and event-driven interactions.
- Integrated **WebRTC** for peer-to-peer audio/video communication, enabling low-latency meeting experiences based on user proximity within the virtual space.

Chat WebApp ⌂ ⌂ | Next.js, ExpressJS, Prisma, Postgres, WebSockets, Redis, Kafka   **Oct 2024**
- Developed a front-end and back-end intensive chat application enabling real-time messaging between users.
- Implemented **WebSockets** for real-time communication and optimized database interactions using **Prisma** with **PostgreSQL**.
- Planning to integrate **Kafka** for event-driven architecture and **Redis** for caching, aiming to enhance scalability, reduce latency, and support **1000+ concurrent users**.

WORK EXPERIENCE

Collab Junction -Internship   **Jun 2024 – August 2024**
(Full Stack Web Developer Intern)   *Remote*
- Contributing as one of **4 full stack developers** to build an event-hosting web app designed to handle up to **30,000 users**, catering to students, sponsors, and artists.
- Developing **real-time communication systems** with sockets and Redis, reducing latency and optimizing for high traffic scenarios.
- Utilizing Full Stack Next.js with Tailwind CSS and WebSockets to build frontend, improve app performance, decrease in page load times and ensuring smooth operation

Dream Merchants – VIT   **April 2023 – Present**
(Research and Development Head)   *Vellore Institute of Technology, Vellore*
- Organized **'Stockastic'**, a virtual stock market simulation with **1,000+** registrations, improving trading and community engagement among university students.
- Coordinated **'DreamTeam'**: Managed an IPL auction event with over **500 participants**, enhancing judgment and financial skills through a competitive, team-based selection process

Association for Computing Machinery   **March 2024 – Present**
(Web Developer)   *Vellore Institute of Technology, Vellore*
- Joined as one of **10** web developers in the university's premier technical club.
- Worked on an RSVP project enabling non-technical clubs to host events, improving event management efficiency by **20%**.
- Contributed to Cryptic Hunt, a flagship event of the largest technical fest in south of India, by developing the backend using Go with the Fiber framework to accommodate over **1000+** user traffic growth.

HACKATHONS

Vach Sahay - Hackathon Winner ⟳ | Next.js, FastAPI, MongoDB, GCP   **April 2024**
- Developed a website with an integrated ML model in a 5-man team to aid people with speech disorders by providing feedback for speech improvement.
- Awarded Track Winners in VIT's 36-hour "Yantra Central Hack" for the track "Reduced Inequality" out of 800+ participants.

Fake News Detection System ↗ | Google Colab, VueJS, Flask   **Nov 2024**
- Developed a **machine learning-powered fake news detection system** trained using **Naïve Bayes** for high accuracy classification.
- Implemented a Flask-based web interface for users to input news articles and get real-time classification results.
- Deployed the model on a cloud-based server for public use.

TECHNICAL SKILLS

Languages: Typescript, Javascript, Python, C, C++, Java, HTML, CSS, SQL, Go

Technologies/Frameworks: TailwindCSS, NextJS, React, VueJs, Express.js, Bootstrap, Flask, FastAPI, MongoDB, Firebase, Prisma, Redis, GCP, AWS, GoFiber, Gin PostgreSQL, Docker, Lang Chain, Gen AI, RAGs,