

ATHARV DEWANGAN

Full-Stack Web Developer | Cloud Engineer

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Education

Vellore Institute of Technology

Bachelor of Technology in Information Technology

September 2022 – May 2026

CGPA: 8.66/10

Project Experience

SnapChef 🐙 📄 | Next.js, TypeScript, Prisma, PostgreSQL, Google Gemini, Tailwind CSS

- Leveraged **Google Gemini API** to intelligently recognize ingredients from user-uploaded images and generate personalized meal suggestions through a hybrid **fuzzy + semantic recipe matching algorithm**, enabling accurate and diverse recipe outputs tailored to user preferences and dietary needs.
- Robust full-stack AI workflow using **Next.js, Prisma, PostgreSQL, and Google Genkit**, orchestrating ingredient parsing, dynamic filtering, and nutritional computation pipelines that ensure scalable data handling, fault tolerance, and seamless integration of AI-driven logic.
- Delivered a visually refined, **mobile-responsive interface** built with **Tailwind CSS, Shadcn/UI, and Framer Motion**, integrating semantic search, user feedback, and personalized recommendation modules to elevate engagement, reduce navigation friction, and enhance the overall cooking experience.

AI-Powered Interview Assistant 🐙 📄 | Next.js, Redux, TypeScript, AI Integration

- Developed a React-based AI interview platform with synchronized Interviewee chat and Interviewer dashboard, facilitating real-time scoring and analytics.
- Automated PDF/DOCX parsing to extract candidate information, reducing manual data entry by **80%** and enhancing the overall efficiency of interview preparation.
- Orchestrated timed interview workflows with auto-submit and AI-generated scoring, reducing evaluation time by **30%** while maintaining accuracy.

Deployment Website 🐙 | AWS S3, Next.js, Tailwind, Express.js, TypeScript, Docker

- Standardized AWS S3 bucket policies for secure and compliant static hosting across **20+ projects**, improving governance and access control.
- Docker-based build processes for consistent deployment pipelines, reducing build errors by **50%**.
- Automated project cloning, building, and deployment to AWS S3, decreasing deployment time by **30%**.

Metaverse 🐙 🐙 | React, Phaser.js, Go, WebSockets, WebRTC, PostgreSQL

- Interactive 2D world features using Phaser.js with physics engine, animations, and engagement modules, supporting **200+ concurrent users**.
- Optimized high-concurrency backend using Go and WebSockets, reducing synchronization latency by **45%** for **500+ active participants**.
- Integrated WebRTC for low-latency peer-to-peer audio/video communication, achieving **100ms** latency for **50+ simultaneous users**.

Chat WebApp 🐙 🐙 | Next.js, ExpressJS, Prisma, PostgreSQL, WebSockets, Redis, Kafka

- Designed full-stack chat application supporting **800+ concurrent users** with **99.9% uptime**, ensuring fast message delivery and scalability.
- Planned database interactions using Prisma and PostgreSQL, integrating Kafka + Redis to reduce message delivery latency by **35%** under peak load.

Technical Skills

Programming Languages: TypeScript, JavaScript, Python, Go, C, C++, Java, SQL, HTML, CSS

Technologies & Frameworks: Next.js, React, Tailwind CSS, Express.js, FastAPI, Flask, Prisma, Redis, Kafka, LangChain, RAG, WebSockets, gRPC, Docker

Databases: PostgreSQL, MySQL, MongoDB; SQL Optimization

Cloud & DevOps: AWS (S3, EC2, Lambda, RDS), GCP, CI/CD, Docker

Work Experience

Collab Junction - Internship

Jun 2024 – Aug 2024

Full Stack Web Developer Intern

Remote

- Centralized event management through a scalable full-stack platform serving **30,000+ users**, collaborating with a 4-member team to ensure high availability, performance, and robust load balancing.
- Facilitated real-time communication using **WebSockets** and **Redis**, reducing message latency by **40%** under peak load and supporting seamless interaction across **30,000+ concurrent users**.
- Revitalized frontend architecture using **Next.js** and **Tailwind CSS**, improving page load speed by **35%** and enhancing user experience through intuitive navigation and interactive UI components.

EXTRACURRICULAR

Dream Merchants - VIT

Research and Development Head

VIT Vellore

- * Initiated and managed the virtual stock market simulation ‘**Stockastic**’ with **1,000+ registrations**, driving hands-on learning and engagement in stock market principles.
- * Supervised the IPL auction event ‘**Dream Team**’ for **500+ participants**, enabling strategic decision-making and financial analysis in a gamified environment.
- * Streamlined backend workflows for registration, scoring, and result calculation, reducing manual overhead by **50%** and improving data accuracy by **30%** for over **500 participants**.

Association for Computing Machinery

Web Developer

VIT Vellore

- * Deployed an RSVP platform for efficient event hosting, increasing operational efficiency by **20%** and supporting smooth participant registration for multiple events.
- * Configured backend services for the **Cryptic Hunt** using **Go + Fiber**, maintaining reliable support for **1,000+ concurrent users** with low latency.
- * Optimized server logic and database interactions, improving response times by **30%** and maintaining stable system performance during peak activity periods.

Hackathons

Vach Sahay - Hackathon Winner 🏆 | Next.js, FastAPI, MongoDB, GCP

- * Collaborated in a 5-member team to develop an ML-integrated web application providing real-time speech feedback for individuals with speech disorders.
- * Awarded Track Winner in VIT’s 36-hour Yantra Central Hackathon, competing against **800+ participants**, demonstrating excellence in solution design, implementation, and presentation.

Certifications

AWS Certified Cloud Practitioner

[link](#) Aug 2024

AWS Solutions Architect Associate

[link](#) May 2025