

Subham Agarwal

📍 Kolkata, India ✉ subhamag2003@gmail.com ☎ +91-9330243839 📁 My Portfolio in subham-agarwal 🌐 subhamagarwal

Education

Vellore Institute of Technology

Sept 2022 – July 2026

B.Tech in Computer Science and Engineering

GPA: 8.29/10.0

- *Relevant Coursework:* **Data Structures and Algorithms, Operating Systems, Computer Networks, DBMS**

Experience

Full Stack Developer Intern

Vellore, Tamil Nadu

Xlancer

Feb 2024 – May 2024

- Developed core components of the [landing website](#) using **Next.JS, TypeScript** and **ShadCN**.
- **Worked alongside a 10+ membered UI/UX team** to implement mobile-first responsive layouts across 4+ screen breakpoints alongside visually appealing web designs
- Contributed to **frontend optimizations** that led to over **183 page views**, **116 new users**, and **15s avg. engagement time** across **7 countries** - recorded via **GA4 instrumentation**.

Technical Skills

Languages: JavaScript, TypeScript, Python, C, C++, SQL

Frameworks: React.JS, Next.js, Node.js, Tailwind CSS, GraphQL, Beautiful Soup, Playwright

Tools And Technologies: Docker, Git, AWS, Figma

Projects

TaskQuest | *Express.JS, GraphQL, Telegraf, Render*

[GitHub Link](#)

- A full-stack **project-based task management platform** using **Node.js, Express.js, MongoDB Atlas, GraphQL, and Tailwind CSS**, enabling **collaborative team workflows** through devices.
- Engineered a **GraphQL API** leading to **reduction in loading times by 20 %** with role-based authorization, and added robust **authentication** with **Firebase, Google OAuth** and **JWT**.
- Integrated a **Telegram bot** via **Telegraf** via **BotFather**, enabling **real-time task updates** and management from Telegram Mobile. **Deployed on Render with UptimeRobot** to prevent cold starts.

FinTelect | *Next.js, Python (Playwright, BeautifulSoup), LangChain, ChromaDB*

[GitHub Link](#)

- Developed an **AI-driven financial dashboard** that streamlines **stock trends, statements, and news sentiment** via **LLMs**, cutting **query complexity by 80%**.
- Aggregated real-time data from **(AlphaVantage, Finnhub, yFinance)** and **dynamic news sources (Google News RSS)** via **BeautifulSoup** and **Playwright**, normalizing **inconsistent schemas** and caching results with **asynchio** for 3x faster API response consolidation.
- Implemented **Gemini Flash** for **context-aware summarization** of financial reports, reducing manual research time by **20%** based on token compression and reading time benchmarks.

FitFusion | *Node.js, Express.js, MongoDB, REST, Bootstrap*

[GitHub Link](#)

- A gym access website where gym locations are present- **admins can create gyms and users can accordingly look up information and give reviews**.
- Involves **CRUD, MVC architecture, authentication** implemented using **Passport**, web security using **Helmet**.
- Implemented **lazy loading** of gym images and location data to reduce initial page load time by **40%**, improving user experience on slower networks.
- Integrated a **cluster map and individual map for each gym location**, using **Maptiler API**. Images for each gym location are uploaded using **Cloudinary**.

Certifications

- **The 2024 Web Developer Bootcamp** by **Colt Steele** — [View Certificate](#)

Extracurriculars

- **DevRel Lead — IEEE-VIT Student Chapter**
Orchestrated **cross-functional** coordination between IEEE-VIT's **technical and administrative teams**, key mind behind **Prudentia**, a **36hr hackathon** that had a footfall of **400+ participants**.
- **Volunteer — ic-ETITE'24**
Oversaw guest logistics, hospitality, and event operations during a 3-day period involving **500+ participants**.