

BASITH AHMED

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Technical Skills

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

Frameworks/Libraries: Next.js, React, Node.js, Express.js, TailwindCSS

Databases: MongoDB, PostgreSQL, Redis, ClickHouse

Cloud/Platforms: AWS, GCP, EC2, S3, ECS, ECR

Tools & Environments: Git, GitHub, Docker, Postman, Linux

Projects

Deploy-It | *AWS ECS, Fargate, ECR, S3, Docker, Kafka, ClickHouse, PostgreSQL, Next.js, Express* [Live](#) — [Source](#)

- Made a containerized build system using **AWS ECS Fargate** to run on-demand **Docker** containers from **ECR** that clone and build GitHub repositories, and upload build artifacts to **S3**.
- Streamed build logs from build containers to **Kafka**, consumed by the API server and stored in **ClickHouse** for high-speed retrieval, then exposed via **REST APIs** for real time access.
- Developed a **reverse proxy** server to route requests to **S3**-hosted builds based on subdomains, while capturing web analytics and storing request logs in **PostgreSQL** for monitoring.

Web-Builder | *Gemini, WebContainer, Next.js, React, Node.js, Express* [Live](#) — [Source](#)

- Offloaded the build processes to the client using the **WebContainer API**, enabling live terminal logs, in-browser compilation, and reducing server load, infrastructure costs, and improving scalability.
- Built a frontend pipeline with **Next.js** and **React**, including a custom parser to process LLM responses and inject structured code into **WebContainer** for real-time, in-browser compilation and preview.
- Developed a backend system with **Node.js** and **Express** that uses **Gemini** to generate full-stack projects from user prompts, returning structured code based on a predefined schema.

Git-Ask | *Langchain, Gemini, tRPC, PostgreSQL, GitHub API, Supabase, Next.js, TypeScript* [Live](#) — [Source](#)

- Built a **RAG system** that fetches **GitHub** repo content, generates embeddings via **Langchain**, and stores them in **PostgreSQL** using **pgvector** on **Supabase** for semantic code search and question answering.
- Developed a fully type safe API layer using **tRPC** and **TypeScript** to manage embeddings, query processing, and user interactions with high reliability and maintainability.
- Integrated **Gemini LLM** for natural language query resolution, enabling **semantic search**, **contextual understanding**, and **automated codebase querying** directly from GitHub repositories.

VPrint | *Firebase Cloud Storage, Firestore, Razorpay, Next.js, React, Node.js, Express* [Live](#) — [Source](#)

- Designed and implemented the system architecture for a dual role web application, featuring separate user and admin interfaces with **Firebase Authentication** and secure **role-based access control**.
- Integrated real time features including live queue visualization, dynamic price calculation, shop availability status, and **payment workflows** using the **Razorpay** payment gateway.
- Developed a comprehensive **admin dashboard** with **role-specific access** to manage orders, monitor queues, update statuses in real time, and securely handle files using **Firebase Object Storage**.

Education

Vellore Institute of Technology

Aug 2023 – May 2027

Bachelor of Technology in Computer Science

CGPA 8.57

Relevant Coursework: Object Oriented Programming, Database Management Systems, Data Structures and Algorithms, Operating Systems, Computer Networks, Theory of Computation, Computer Architecture and Organization, Machine Learning

Certifications and Courses

Modelling Software Systems using UML | The Hong Kong University of Science and Technology [Certificate](#)

AWS Fundamental Specialisation | Amazon Web Services [Certificate](#)

Software Engineering Experience Program | JP Morgan Chase & Co [Certificate](#)

Introduction to Trading, Machine Learning and GCP | New York Institute of Finance [Certificate](#)