

Sidharth

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SUMMARY

Third-year Computer Science and Engineering student with a strong foundation in C++ and full-stack development. Experienced in building real-time applications, developing Android clients, and deploying containerized backend services using Google Cloud Platform and Docker. Passionate about algorithmic problem-solving and scalable software architecture.

EDUCATION

Haldia Institute of Technology

B.Tech, Computer Science and Engineering

Expected Graduation: 2028

Relevant Coursework: Data Structures and Algorithms, Compiler Design, Object-Oriented Programming, Database Management Systems.

SKILLS

Languages: C++, C, Java, Python, JavaScript, HTML, CSS, SQL, Kotlin

Frameworks & Libraries: Jetpack Compose, Material 3, Flask, Coroutines & Flow

Cloud & DevOps: Google Cloud Platform (GCP), Docker, Linux (Debian), Firebase (Auth, Firestore, FCM), Render

Developer Tools: Git, GitHub, Visual Studio Code

PROJECTS

Echo Chat – Native Android Messaging App | *Kotlin, Jetpack Compose, Firebase, Coroutines*

- Developed a reactive real-time Android chat client using Jetpack Compose and MVVM architecture, handling user authentication, presence tracking, and unread counters.
- Architected asynchronous data streams with Kotlin Coroutines and StateFlow to observe Firestore database changes and maintain low-latency UI state.
- Built a robust background messaging pipeline using Firebase Cloud Messaging (FCM) and local notification managers to deliver push notifications with deep-link navigation.

WatsonX AI Cloud Terminal | *Python, Flask, IBM WatsonX API, Docker, Render*

- Engineered a containerized interactive terminal web interface to query and stream responses from IBM WatsonX AI foundation models.
- Containerized the Flask backend with Docker and deployed it to Render, securing API credentials through isolated environment variable configurations.
- Implemented an asynchronous client-server request loop to parse JSON payloads and render live command-line style output in the browser.

Real-Time Web Feed Application | *Python, GCP, Cloud Firestore, Custom CSS, Debian Linux*

- Built a full-stack web chat application backed by Flask and Google Cloud Firestore for real-time document synchronization and persistence.
- Configured, deployed, and self-managed the production build on a Google Cloud Platform Debian VM, handling Linux service daemons and network traffic.
- Designed a responsive, animated frontend feed with pure CSS to provide fluid message transitions without heavy external frontend dependencies.

OPEN SOURCE

Open Source Contributor - first-contributions

Apr 2026

GitHub

- Successfully forked, branched, and merged a feature pull request into an active open-source repository to practice distributed version control workflows.

ACADEMIC PRESENTATIONS

- **Input Buffering in Lexical Analysis (Aug 2026):** Designed a 14-slide technical presentation detailing compiler design architecture and lexical input mechanics.
- **Graphs in Action: Powering Your Digital World (Nov 2025):** Authored an HTML-based slide deck exploring graph data structures and their real-world applications for a DSA seminar.