

SIDDHARTHA KHUNTIA

Software Engineer — LOHUM, Ex-Sheru — IIT-BHU

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Experience

LOHUM

June 2024 – Present

Back End Developer

Greater Noida, UP

- Architected scalable backend systems and cloud infrastructure for **IoT** and **AI-powered** products, driving major improvements in performance, observability, and cost efficiency
- **IoT Data Pipeline:** Engineered a high-throughput **TCP server** in **Golang**, improving system efficiency by **90%** CPU and **50% memory** while processing **6,000+ packets/min** from distributed devices
- **Energy Management System:** Constructed real-time monitoring platform using **Next.js**, **PostgreSQL**, and **MongoDB Time Series**, enabling **<30s** telemetry visibility across **25+** energy sites
- **Cloud Infrastructure:** Optimized **AWS costs by 30%** through serverless-first architecture, automated microservices resource lifecycles, and Lambda-based infrastructure cleanup
- **Conference Summarizer:** Programmed an AI-powered tool using **LangChain**, **OpenAI APIs**, and **AWS**, decreasing internal meeting review time by **75%**

Sheru

May 2023 – July 2023

Full Stack Engineer

Delhi, India

- Spearheaded critical workflow automation systems that transformed business operations and customer support processes
- **Workflow Platform:** Crafted a production-ready system with **10+ custom nodes**, validation logic, and execution engine that processed insurance claims **40% faster**, minimized errors by **65%**, and ensured reliable execution in production
- **WhatsApp Integration:** Formulated customer service solution connecting **WhatsApp Business API** with **OpenAI**, automatically resolving **85%** of customer inquiries and cutting response times by **70%**
- **IVR & Testing:** Devised call input logging system using **Exotel's** framework and generated **Jest** tests simulating API interactions, enabling comprehensive testing without production credentials

Codeasy

February 2023 – April 2023

Full Stack Engineer

Hyderabad, India

- Led a team building an interactive coding platform for students with real-time progress tracking for teachers
- **Team Leadership:** Orchestrated **4 developers** using **React**, **GraphQL**, **Relay**, and **MySQL** to deliver the product
- **Block Coding:** Established an interactive programming environment for students while teachers track their progress
- **Admin Portal:** Structured management tools with bulk operations that streamlined content updates by **30%** and accelerated student onboarding by **50%**
- **Backend:** Enhanced DB performance and configured a scalable **Prisma** schema to handle growing users and content

Projects

Zakuf – Document Utility | *Go, Gotenberg, Vite* 🌐

2025

- Built end-to-end tool that converts Office Docs to PDF and merges heterogeneous PDFs with drag-and-drop re-ordering
- Leveraged **Gotenberg** REST API from a lightweight Go microservice, doubling throughput vs. shell pipelines
- Designed a Vite-powered frontend with resumable uploads and optimistic UI; kept server stateless for horizontal scaling

Yakitsu – Typing Runner | *Phaser 4, TypeScript, Vite* 🌐

2025

- Shipped offline, Mario-style runner where obstacle avoidance is gated by real-time typing accuracy
- Added PWA service-worker bundle for **<2 s** cold-start and persistent highscores via **localStorage**
- Maintained steady 60 FPS by profiling sprite layers and eliminating 15 % of draw calls

Chattur | *React.js, Socket.io, WebRTC, Firebase Auth*

2022

- Engineered low-latency HD video calls and real-time chat
- Integrated secure Google OAuth and email sign-in; enforced end-to-end encryption on signaling payloads
- Crafted responsive UI and virtualised chat lists to deliver fluid UX across desktop and mobile

Technical Skills

Languages & Technologies: Golang, JavaScript, TypeScript, C++, Python, Bash, Node.js, React.js, GraphQL, Docker

Databases & Cloud: MongoDB, PostgreSQL, MySQL, InfluxDB, Timestream, AWS, Grafana, Prometheus

Tools & Concepts: Git, Vim, Prisma, Operating Systems, OOPs

Education

Indian Institute of Technology (BHU), Varanasi

2020 – 2024

Bachelor's degree, Metallurgical Engineering

CGPA: 8.32/10

Honors and Achievements

Winner, Flipr Hackathon XIV (2022): Led a team to victory in the Web Development track