

# Samya Brata Maji

+91 7719154350

samyabratamaji334@gmail.com

samyabrata-maji

sammaji

## Education

Maulana Abul Kalam Azad University Of Technology

Bachelor of Technology in Computer Science and Engineering (B. Tech. CSE)

July 2023-26

Kalyani, India

## Experience

**Self-employed**

July 2024 – Present

Freelance Full-stack Engineer

Remote

- Working as a full-stack engineer (react and postgresql), helped **20+ clients**, built saas applications and internal tools.
- Developed an internal ios app to schedule cancelled appointments, notify users, two way sync (via csv only) across multiple crms like Wellsky and track incentives.
- Built an ai image generation pipeline, migrated 80k records from airtable to payloadcms and postgresql, did technical seo, increased pageviews from 10k to 70k.
- Developed a supplements directory with cms integration, added live content editing, ratings tracking and custom forums (supporting mentions, nested comments and markdown editor).

**Venus Remedies Limited**

Jan 2024 – Aug 2024

Software Developer Intern

Remote

- Developed frontend in nextjs (typescript) and tailwindcss, user authentication, forms, budibase integration, etc.
- Built an internal admin dashboard where admins can manage users, observe metrics and invite collaborators with different access permissions.

**Baires Dev**

June 2023 – Nov 2023

Technical Writer

Remote

- Published articles on Java's Garbage Collection, Concurrency & Multi-threading, Unit Testing, Integration testing, Smoke testing, Shift Left Approach, etc.
- Received 40k+ pageviews.

## Projects

**Term ai** | Next.js, PostgreSQL, Redis, Google Cloud Run, Websockets, Docker

- Developed a cloud IDE (like Github Codespaces or Replit) for Neovim (winner Hack4Bengal 3.0).
- Deployed project using Google Cloud Run and Pulumi.

**SamScript - Programming Language** | Typescript, Java

- Dynamically typed programming language built from scratch using Typescript.
- Supports features like lexical scoping, if-else, loops, functions, classes and objects.
- Wrote a lexer generator from scratch that generates lexer code from static definitions in Java.

**DNS Server** | Typescript, Node.js, Dgram

- Hands-on project to learn the underlying mechanics of DNS servers, analyzing UDP packet structures, and delving into network protocols; deepened understanding of network infrastructure and packet-level communications.
- Implemented header compression, recursive resolve and caching.
- Added security measures to protect against vulnerabilities like DDoS attacks and circular requests.

## Technical Skills

**Languages:** Javascript, **Typescript**, Java, Python, C, C++, Rust, **OCaml**

**Web:** React.js, Next.js, TailwindCSS, Nodejs, Express, Prisma, tRPC, GraphQL, jQuery, Docker, Kafka

**Databases & Cloud:** PostgreSQL, Redis, Nginx, AWS (EC2, EKS, ELB, S3, SES, SQS), Doocker, Pulumi, Kubernetes, Linux

## Achievements

- Worked with 20+ clients, including **3 healthcare startups**.
- Winner of East Asia's biggest hackathon, Hack4bengal 3.0
- Winner of Hack Around The World 2.0, by MLH Hacks, a global hackathon that received 1000+ participants.