

Subhradip Sinha

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EDUCATION

Maulana Abul Kalam Azad University of Technology
Bachelor of Technology in Computer Science and Engineering

Aug 2022 - Jul 2026

Raniganj High School
X: 93%, XII: 92%

2020 - 2022

EXPERIENCE

Full-Stack Developer (Freelance Contract)

2025

Sec-Prop — Platform tailored for architects

- Developed an internal tool for civil engineers to create architecture diagrams.
- Implemented real-time collaboration using CRDT.

Full-Stack Developer (Freelance Contract)

2025 - Present

amidarh.com

- Implemented multi-tenant authentication in Golang.
- Reduced AWS compute costs by **60%**.
- Improved internal notification delivery and overall system stability.

PROJECTS

JustPing - Website Monitoring & Visual Diffing Platform

2026

Go, TypeScript, React

- Built a system to monitor visual changes in any website with automated alerting.
- Built a concurrent Go crawler with scheduling, retries, and rate limiting.
- Developed visual diffing and proxy bypass / botnet support to handle anti-bot blocks.

SubTerm - Codespaces-style Web IDE

2025

React, Express, AWS

- Built a web-based IDE supporting real-time terminal execution.
- Built a system for **untrusted code execution** via ephemeral microcontainers using QEMU.
- Designed secure message passing between controller and sandboxes.

Rekognizer - AI image recogniser

2024

React, AWS Lambda, Terraform

- Built a scalable image recognition system optimized for high concurrency.
- Provisioned cloud-independent infra and deployed inference on AWS Lambda.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Golang, Python, SQL, HTML/CSS

Web: React, Next.js, TailwindCSS, Nodejs, Express, Prisma, Socket.IO, LangChain

Cloud & DevOps: AWS (EC2, S3, ECS, SQS, SES), Docker, Terraform, Nginx, Linux

Databases: MongoDB, SQLite, Redis

Tools: Git, GitHub, VS Code, Postman, Vercel

ACHIEVEMENTS

- MongoDB Associate Developer Certified.
- Completed a Virtual Internship at Deloitte.
- Team Lead - Runner up in SIH Hackathon.