

# Subhradip Sinha

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Full-stack developer experienced in building scalable web applications with cloud-native deployments on AWS using infrastructure-as-code. Strong backend focus on designing concurrent and high-performance services.

## EDUCATION

### Maulana Abul Kalam Azad University of Technology

B.Tech in Computer Science and Engineering

RHS – WBBSE, WBCHSE

X: 93% (2020), XII: 92% (2022)

Aug. 2022 – Jul. 2026

2020 – 2022

## EXPERIENCE

### Full-Stack Developer (Freelance Contract)

Sec-Prop Project

2025

- Contributed 48+ commits across UI and backend systems as a full-stack developer.
- Delivered production-ready features and collaborated via GitHub.
- Commit history: [github.com/akcanuv/sec-prop](https://github.com/akcanuv/sec-prop)

### Full-Stack Contributor

[amidarh.com](https://amidarh.com)

2025 – Present

- Contributed 50+ commits to course APIs and backend reliability.
- Enhanced the internal notification delivery system.
- Commits: [github.com/Amidarh-ltd/flow-backend/commits/notifications](https://github.com/Amidarh-ltd/flow-backend/commits/notifications)

### Full-Stack Contributor

[messmate.com](https://messmate.com)

2024 – Present

- Built QR-based check-in flow, leading to a 30% increase in user adoption.
- Contributed regularly to the platform's onboarding and workflow features.
- Commits: [github.com/messmate/...](https://github.com/messmate/messmate/...)

## PROJECTS

### Web IDE Development | React, Express, Socket.IO, Node-pty

2025

- Built a web-based IDE supporting real-time terminal execution with isolated environments.
- Integrated live terminal interaction using Socket.IO and Node-pty.
- Self-hosted on AWS with controlled traffic and restricted access.
- Live: [subterm.duckdns.org](https://subterm.duckdns.org)

### PDF AI Chatbot (RAG) | Next.js, Express, LangChain, BullMQ, HuggingFace

2025

- Created an AI assistant that answers PDF-based queries using a Retrieval-Augmented Generation approach.
- Handled PDF processing with BullMQ queues and LangChain embeddings.
- Built APIs in Express.js and the frontend with Next.js.
- GitHub: [github.com/dipsubhro/pdf-AI](https://github.com/dipsubhro/pdf-AI)

### AI Image Rekognizer | HTML, CSS, JavaScript, AWS Lambda, Terraform

2024

- Implemented an image recognition tool with a lightweight JS interface.
- Processed images using Python functions deployed on AWS Lambda.
- Provisioned infrastructure and deployment using Terraform.
- Live: [tinyurl.com/rekogniser](https://tinyurl.com/rekogniser)

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** React, Next.js, Node.js, Express.js, BullMQ, Socket.IO

**Cloud & DevOps:** Docker, AWS (EC2, S3, ECS), Redis, Terraform

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

**Databases:** MongoDB, PostgreSQL, Redis