

# Ananta Chattapadhyay

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## Experience

### Madquick Pvt. Ltd. — Full Stack Developer Intern

Remote Internship  
(paid)

- Developed large-scale CRM modules with secure role-based access, dashboard analytics, and REST APIs; implemented WebSocket-powered real-time chat, notifications, and event-driven features across the system.

### Everything About AI — Full Stack + AI Developer Intern

Remote Internship  
(paid)

- Worked on AI-driven full-stack applications including an automated code–video editor powered by LLMs, where user prompts dynamically edited videos using a hybrid pipeline of Generative AI, Node.js services, and cloud processing.

## Projects

### AI Interview Mocker – Master Your Interview Skills

[GitHub](#) [↗](#)

- Developed a comprehensive web platform that simulates real technical interviews using **AI-generated questions**, **speech recognition**, and **AI-based feedback** powered by Google Gemini AI. Built advanced features real-time **audio transcriptions**, and intelligent **score evaluation** with dynamic dashboards.

- Tech Stack:** Next.js 15, React 19, TypeScript 5, Tailwind CSS 4, Gemini AI API, SpeechRecognition API, Neon.

### PassGenPro – a full-stack zero-knowledge Password Manager & Generator

[GitHub](#) [↗](#)

- Engineered a secure password vault with real-time strength analysis, clipboard auto-clear, and AES-256-CBC encryption with 2FA (TOTP), ensuring 100% client-side confidentiality and 50% faster performance.

- Tech Stack:** Next.js 15, React 18, TypeScript 5, Tailwind CSS 4, Framer Motion, MongoDB, Mongoose, bcryptjs, crypto-js, Speakeasy, QRCode.

## Publications

### Wolverine Optimization Algorithm for Network Intrusion Detection

Accepted – IEEE OCIT  
2025

- Introduced a **Wolverine Optimization Algorithm (WOA)** inspired by cooperative hunting to enhance detection accuracy. Accepted under the **Networking and Information Security (NIS)** track at **OCIT 2025**.

## Skills

**Programming Languages:** C, C++, Java, Python, JavaScript (ES6+), TypeScript, SQL, PHP

**Frontend Development:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap, SCSS, Redux, Wordpress, Figma

**Backend Development:** Node.js, Express.js, FastAPI, REST APIs, Authentication & Authorization, API Gateways

**Databases:** PostgreSQL, MySQL, Oracle, MongoDB

**DevOps & Cloud:** Git, GitHub, Docker, AWS (EC2, S3, Lambda, RDS), Vercel, Render, CI/CD Pipelines

**Tools & Frameworks:** Postman, Jupyter, VS Code, PyCharm, Streamlit, Gradio, Nginx

**Core CS & Domains:** Linux Commands, Operating Systems, OOP, DBMS, SDLC, MVC Architecture, Agile Methodologies, Machine Learning (Basics), IoT (Basics)

## Education

### B.Tech in Information Technology

Ongoing (ends in 2026)

Netaji Subhash Engineering College (MAKAUT)

CGPA: 8.17

### Higher Secondary (ISC)

2021

St. Thomas High School

Percentage: 81.60%

## Achievements

- SIH 2024 National Winner — “KrishiSevak” Drone and AI based AET prediction system [\[Result Link\]](#) [↗](#)
- Open Source Contributor — SWOC, GSSOC, Hacktoberfest (2022–2023)

## Certifications

- Cybersecurity & Ethical Hacking — ESC VAT Program [\[Certificate Link\]](#) [↗](#)
- Machine Learning using Python — Built diabetes prediction system [\[Certificate Link\]](#) [↗](#)