

Ananta Chattapadhyay

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Experience

Madquick Pvt. Ltd. — Full Stack Developer Intern	<i>Remote Internship (paid)</i>
○ 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	<i>Remote Internship (paid)</i>
○ 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	<i>Accepted – IEEE OCIT 2025</i>
○ 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	<i>Ongoing (ends in 2026)</i>
Netaji Subhash Engineering College (MAKAUT)	
CGPA: 8.17	
Higher Secondary (ISC)	<i>2021</i>
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](#) ↗]