

# Anisha Dwivedi

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## Summary

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Aspiring Software Development Engineer (SDE) passionate about building scalable and efficient solutions. Seeking to leverage my expertise in AI, deep learning, and full-stack development to drive innovation. Passionate about learning, growth, and engaging with intellectual minds. Avid badminton player and chess enthusiast.

## Technical Skills and Interests

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**Languages:** C/C++/Java, Python, JavaScript, Matlab, VHDL, SQL, LATEX, Kotlin, Flutter

**Web Technologies & Frameworks:** React, Next.js, Express.js, Node.js, Vite.js, HTML, CSS

**Other Skills:** Cadence Software, Arduino, Perl, Git, RESTful APIs, BootStrap, MongoDB,MySQL, Experienced in working on different OS such as Linux, Teamwork Skills

## Experience

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### Zidio Development

June 2025 – present

*Full Stack Developer Intern (Remote)*

- Built a full-featured **blogging platform** using **React.js**, **Express.js**, and **MongoDB** with JWT auth and **Cloudinary** for image uploads. Implemented **likes**, **comments**, and role-based dashboards (admin/user) with secure backend validation.
- Developed an Excel analytics tool with **JWT auth**, **SheetJS**, **Chart.js**, and **Three.js** for data parsing and 3D visualization. Enabled AI-based insight generation via **OpenAI API**, with admin panel and data export features.

### Centre for Development of Advanced Computing (C-DAC), Noida

May 2024 – June 2024

*Intern – Ethical Hacking and Penetration Testing*

- Developed and detected a **keylogger in C++** to understand keystroke logging mechanisms.
- Conducted vulnerability assessments using **banner grabbing**, **Telnet**, **Nmap**, and **Curl**.
- Enhanced web security by securing Apache banners and implementing advanced access controls.

## Education

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### Indian Institute of Information Technology, Senapati, Manipur

June 2026

*B.Tech in Electronics and Communication Engineering*

**Current CPI: 8.02**

**Relevant Coursework:** Data Structures, Design & Analysis of Algorithms, Operating Systems, Object-Oriented Programming, Computer Organization and Architecture, Database Management Systems, Computer Networks, Fundamentals of Artificial Intelligence, Internet of Things.

### City Montessori School, Lucknow

June 2019 - June 2021

*Higher Secondary*

**95% (June 2021)**

**Relevant Coursework:** Physics, Chemistry, Mathematics, Computer

*Secondary*

**94.6% (June 2019)**

**Relevant Coursework:** Physics, Chemistry, Mathematics, Computers, Biology, History, Geography

## Personal Projects

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### • ZipNGo – AI-Powered Travel Package Booking Platform [[Live Demo](#)]

Built a responsive travel site using **React (Vite)**, **Tailwind**, and **shadcn/ui**. Integrated user itinerary planning stored in **Firebase Firestore** and prompt-based suggestions via **Gemini Pro (Google AI)**. Added interactive maps and route previews with **Mapbox**; deployed on **Vercel**.

### • scribbleNsense – AI-Based Handwritten Math Visual Solver [[Live Demo](#)]

Developed a canvas-based tool using **React** and **FastAPI** to interpret input via **Gemini Vision API**. Rendered results using **MathJax** and draggable UI; added export-to-image and memory features.

### • Power-Domain NOMA Simulation – AI-Enhanced Wireless System

Simulated next-gen wireless networks in **Python** and **C++** with **deep learning**-based power allocation. Used AI clustering for dynamic user pairing and improved fairness under varying channel conditions.

## Certifications

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- C++ with DSA – PW Skills
- Artificial Intelligence – *IIT Guwahati-through SWAYAM*
- Python, Arduino,Perl – *IIT Bombay (Spoken Tutorials)*