

Tanmoy Debnath

Email: tanmoydn2003@gmail.com — Phone: +91-8794140550

LinkedIn: <https://www.linkedin.com/in/tanmoy-dednath/>

GitHub: <https://github.com/TanmoyFRu>

Objective

Proactive Computer Science student with expertise in Python, FastAPI, and full-stack web development. Committed to designing scalable and user-centric software solutions to enhance organizational efficiency.

Education

Bachelor of Technology in Computer Science and Engineering Techno College of Engineering, Agartala CGPA: 7.2	2021 – 2025
Higher Secondary Certification Umakanta Academy English Medium, Agartala Percentage: 78	2019 – 2021

Skills

- **Programming Languages:** Python, JavaScript
- **Web Development:** HTML, CSS, FastAPI, Vue.js, Responsive Design
- **Databases:** SQLite, MySQL, PostgreSQL, MongoDB
- **Developer Tools:** Visual Studio Code, Jupyter Notebook, IntelliJ, Git/GitHub, Postman, Canva, Microsoft Excel, Microsoft PowerPoint
- **Soft Skills:** Analytical Problem-Solving, Strategic Thinking, Team Collaboration, Adaptability to Dynamic Environments

Projects

- | | |
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| User and Blog Management System | 2024 |
| <ul style="list-style-type: none">- Built a RESTful API using FastAPI for user and blog management with authentication.- Integrated SQLAlchemy for database operations and utilized SQLite for data storage.- Implemented JWT-based authentication for secure login and role-based access control.- Designed modular components for handling users, blogs, and authentication workflows.- Ensured functionality through a robust database inspection script- GitHub Repository: https://github.com/TanmoyFRu/User-Blog-Authentication-API | |
| Cultural Heritage Website for Tripura | 2024 |
| <ul style="list-style-type: none">- Developed a responsive and modern cultural website for Tripura using HTML, CSS, and JavaScript, incorporating Swiper.js and Locomotive Scroll for seamless animations and enhanced user engagement.- Achieved a responsive design with optimal cross-device functionality.- Focused on integrating visually appealing animations to engage users.- Hosted at: https://tanmoyfru.github.io/Project22401/ | |

Internships / Experience

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|---|-----------------|
| Trainee at MSME Tool Room Training Center – Guwahati | 7/2023 – 8/2023 |
| <ul style="list-style-type: none">- Designed and deployed an IoT-based smart irrigation system, reducing water usage by 20% and enabling real-time monitoring via the Blynk IoT platform. | |
| Trainee at MSME Technology Center – Kolkata | 7/2024 – 8/2024 |
| <ul style="list-style-type: none">- Architect a network for a software firm, acquiring and configuring a private IP (172.16.0.0) from a Washington ISP. | |

Achievements

- Gold Medalist in "Software Conceptual Design" by IIT Bombay (Swayam NPTEL), ranking in the top 1% of 8250+ participants