

# SWETH SHAW

Agartala, Tripura

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Portfolio: <https://swethshaw.github.io/Portfolio/>

## SKILLS

- **Programming Languages:** C++, JavaScript, Python, Swift
- **Frontend:** HTML, CSS, Bootstrap, React, Tailwind, React Native
- **Backend:** Nodejs, REST API, Express.js, Django
- **Databases:** MySQL, MongoDB, Firebase, Supabase
- **Development Tools:** Git, GitHub, VS Code, Postman, Xcode, Android Studio, Docker, CI/CD
- **Soft Skills:** Analytical Reasoning, Team Collaboration, Leadership

## PROJECTS

### Micromouse Maze Game

Dec 2024 – Jan 2025

Group Project – My Role: Algorithm Design & UI Development

- Devised an intellectual maze-solving technique utilizing Depth-First Search, Breadth-First Search, A\*, and Flood-Fill, trimming down navigation duration by 30%.
- Fashioned an interactive visual interface using Pygame, offering live depiction of the robot's transit and amplifying user participation by 25%.
- Engineered a flexible maze creator that modifies complexity based on algorithmic prowess, yielding a 15% surge in solution diversity.
- Technical toolkit: Python, Pygame, Tkinter, Algorithmic Navigation.

### DineroSR – Financial Management Platform

Mar 2024 – May 2024

Solo Project

- Developed a full-stack financial tracking application similar to *Khata Book*, enabling users to manage retail transactions digitally.
- Integrated secure payment features allowing users to record and process payments directly through the platform.
- Implemented e-bill generation and automated transaction summaries, providing users with detailed financial insights.
- Designed a responsive, intuitive UI with React and Tailwind CSS, ensuring seamless usability across devices.

## PROFESSIONAL TRAINING

### EDU-VERSITY (Ex tech Digital) – Full Stack Web Development Intern

Aug 2024 – Sep 2024

- Built responsive full-stack apps using React, Node.js, MongoDB
- Developed REST APIs with JWT authentication and role-based access
- Optimized UI performance using Tailwind CSS; deployed on Vercel
- Collaborated via Git in Agile sprints with daily standups

### CIPHERSCHOOLS (MERN Stack) – Full-Stack Web Development Intensive

Jun 2024 – Jul 2024

- Attained an in-depth training in the MERN stack (MongoDB, Express.js, React, Node.js), including frontend and backend development.
- Developed hands-on projects using HTML, CSS, Bootstrap, and Tailwind CSS to design responsive, user-friendly interfaces.
- Utilised RESTful APIs, Redux, and Context API for effective data management and secure user authentication.
- Deployed full-stack applications on Firebase and Vercel, understanding scalability, accessibility, and real-world deployment processes.

## CERTIFICATES

- IBM DevOps and Software Engineering (Coursera) May 2024
- Meta iOS Developer (Coursera) May 2024
- Mastering Data Structures & Algorithms using C and C++ by Abdul Bari (Udemy) Apr 2024
- Explore a Career in Front-End Web Development (LinkedIn) Mar 2023
- SQL(Advanced) certification (Hacker Rank) Mar 2023

## EDUCATION

### Lovely Professional University

Bachelor of Technology – Computer Science and Engineering; CGPA: 7.47

### Tripurasari VidyaMandir

Intermediate

### Montfort Hr. sec School

Matriculation

Phagwara, Punjab  
Since Aug 2022  
Gandhigram, Tripura  
Apr 2020 – Mar 2022  
Champak Nagar, Tripura  
Apr 2018 – Mar 2020