

# Sudarsan sarkar

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## EDUCATION

**Cambridge Institute of Technology North Campus,**  
*Bachelor of Engineering in Computer Science and Engineering*  
**South Calcutta Polytechnic College,**  
*Diploma in Computer Science and Technology*

**2021 – 2024**  
*Bengaluru*  
**2017 – 2020**  
*Kolkata*

## EXPERIENCE

**Padho.ai , Bengaluru, Karnataka**  
*Backend Developer*

**Current**

- Currently managing and optimizing backend data flow for an AI-powered pathology platform, ensuring high performance and integrity of large educational data sets.
- Responsible for handling, cleaning, and preparing clinical data for machine learning models, accelerating the development of AI solutions for diagnosis and research.

**CodSoft, Bengaluru, Karnataka**  
*Web developer Intern*

**Apr 2024 – May 2024**

- Developed and optimized scalable, data-driven web applications using MERN stack (MongoDB, Express, React, Node.js) for a robust and unified full-stack solution..
- Optimized application performance and data handling by integrating well-defined Web APIs and utilizing Entity Framework Core for efficient database interaction within the React environment.

## PROJECTS

**DreamHome: Full-Stack Property Management Platform**

[GitHub](#) — Live

- Developed a full-stack website utilizing the **MERN stack** (React, Redux, Node.js, Express, and MongoDB, **JWT**-secured authentication,) to implement a comprehensive **user authentication** and property listing system.
- Implemented core features allowing users to **sign-up/sign-in**, create, update, and delete property listings (**CRUD Operation**), and contact landlords directly, all secured with a clean UI.

**Snake Game: Using Python Programming and Turtle Graphics**

[GitHub](#)

- Developed a classic Snake game in **Python** using **Turtle Graphics**, integrating a dynamic **score system** and real-time movement and collision detection.
- Implemented game logic where successfully eating food increases the **snake's size** and speed (**difficulty**), challenging the user to maintain control and achieve **high scores**.

**Trending: E-commerce Platform**

[GitHub](#) — Live

- Developed a responsive, full-stack **e-commerce** solution using the **MERN** stack (**MongoDB**, **Node.js**, **Express**, **ES6+**) with **RESTful APIs** to power integrated **Admin**, **Client**, and **User** sides, including complete product **CRUD** operations.
- Implemented robust security and commerce features, including **JWT** authentication, advanced state management via **Redux** and **Context API**, and diverse payment systems (**Stripe**, **Razorpay**, **Cash on Delivery**).

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript, Python, Java, FireBase, Shell Scripting,

**Frameworks:** Node.js, React.js, Next.js, Express.js, Mongodb, Entity Framework Core, Razor Pages

**Technologies:** HTML, CSS, Tailwind CSS, Bootstrap, Material UI, razorpay, MongoDB, RESTful APIs, WebSocket

**Developer Tools:** Git, GitHub, Postman, Docker, VScode, Linux,

**Practices:** Microsoft azure, Microservices, Unit Testing, SOLID Principles

## CERTIFICATE

- [Azure \(Microsoft Azure Fundamentals\)](#) – Microsoft
- National confidence – NPPTBI-24 (IIC)
- [The Complete 2024 Web Development Bootcamp](#) – Dr. Angela Yu (Udemy)
- [DECODE TO CODE](#) – Coding Competition (CITNC)
- Python : The Complete Python pro Bootcamp – Dr. Angela Yu (Udemy)
- [App Development : Android app development Workshop](#) – Kyriion Technologies (IIT Kharagpur)
- [NSS CAMP : 10 Days NSS Volunter](#) – Chikkaballapur (CITNC)