Sagnik Santra

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EXPERIENCE

- **Poligames Services Private Limited** — Remote
  Web Dev Intern — *June 2023 - Aug 2023*
  - : Spearheaded the frontend development of a Fantasy Gaming Platform from the ground up using React, ensuring a responsive and user-friendly interface.
  - : Developed and integrated RESTful APIs, optimizing data flow and enabling smooth user interaction.
  - : Engineered the backend using MongoDB and Express, maintaining high data integrity and seamless scalability.
  - **Technologies**: React, Redux, Tailwind, Node.js, MongoDB, Express, TypeScript

- **ECell MIT Manipal** — Manipal
  Web Developer — *Dec 2022 - Feb 2023*
  - : Designed and built the official website using MERN stack for the Manipal Entrepreneurship Summit 2023 and 2024, attracting over 5000+ users and enhancing event engagement.
  - **Technologies**: Technologies: React, Node.js, Express, MongoDB

POSITIONS OF RESPONSIBILITY

- **International Delegate - HPAIR**: Selected as a prestigious delegate representing the **Harvard College Project for Asian and International Relations** at the Asia Conference in Hong Kong.
- **Technical Head - ECell MIT**: Organized online and offline technical training for **100+** students, contributing to their skill development. Played a pivotal role in successfully conducting MES 2023, one of the largest Entrepreneurship Summits in Southern India. Developed the event registration website from scratch, streamlining the registration process.
- **Project and Sponsorship Head - IECSE**: Explored web development and machine learning at a core level, driving innovation and collaboration. Provided guidance and assistance to fellow members in the field of machine learning.

PROJECTS

- **TalkPDF (AI, SaaS, OpenAI, Langchain, NextJS, Typescript)**: Engineered a *SaaS platform* that allows users to upload PDFs and interact with an AI-driven chatbot for extracting and querying document information. Utilized *Next.js* and *TypeScript* for a robust and scalable front-end, and integrated *Langchain* with *OpenAI API* for advanced NLP to handle dynamic queries. Implemented *PineconeDB* for vector similarity search and efficient document embeddings. Managed user authentication with *Clerk API*, payments via *Stripe*, and used *Firebase* for real-time database management. Incorporated *Daisy UI* to ensure a clean, responsive user interface. (link to project)
- **NextPay (Full Stack, Monorepo, NextJS, Typescript, PostgreSQL)**: Designed and developed a *financial platform* for secure onramp money transfers and peer-to-peer lending, utilizing a monorepo architecture with *Next.js* and *TypeScript*. Integrated *Postgres* for high-performance relational data management, ensuring transactional integrity and efficiency. The monorepo structure improved maintainability across multiple services, while *Next.js* provided server-side rendering for optimal user experience. Implemented modular APIs for seamless data flow, enhancing transaction security and reliability. (link to project)
- **KuberX (Full Stack, Finance Tracking, MERN, GenAI)**: Developed a comprehensive *personal finance tracking web app* with features comprising of Dashboard with graphs and statistics, transaction management, AI Smart Fill, peer-to-peer lending, market insights, expert consultation, chatbot support. Build with *React.js, Tailwind CSS, Node.js, Express, Flask, MongoDB, TensorFlow, GPT 3.5*. (link to project)
- **Ann-Data (AI, Image Detection, MERN, Python)**: *Revolutionizing Indian Agriculture* with Anndata, a tech-driven platform empowering farmers with AI precision techniques. Features include a personalized AI chatbot, disease detection using *YOLO v8*, marketplace, collaborative QnA forums, and crop recommendations. Built with *React, Tailwind, Node.js, MongoDB*, and *Python* (for ML), *Razorpay* for payments. (link to project)

SKILLS

- **Technical**: C++, Python, HTML5/CSS, SQL, Java, JavaScript, Typescript, React, NextJS, NodeJS, DevOps
- **Soft Skills**: Project Management, Financial Analysis, Leadership, Teamwork, Creativity
- **Coursework**: Web Development Bootcamp by Angela Yu (Udemy), Introduction to Machine Learning by Andrew NG (Coursera), Frontend Development Specialization by META (Cousera), Data Structures and Algorithms (Coding Ninjas)

ACHIEVEMENTS

- Selected among top **7** finalist in the nationwide hackathon HACK'L'TH conducted by **GE Healthcare**. Over **thousands** of students from best institutes all over India participated in this hackathon.
- Secured **1st** position under W20 category out of **200+** participants and in the APPLab Hackathon conducted by MAHE Innovation Centre for making the W-Connect web app
- Recipient of the **AICTE** scholarship for my Engineering Education

EDUCATION

- **Manipal Institute of Technology** — Manipal, India
  Bachelor of Technology - Data Science and Engineering minor in Financial Analysis — *Graduating 2025*
  Courses: *Data Structures, Algorithms, Database Management, Computer Structures and Architecture, Computer Networking, Object Oriented Programming, Machine Learning, Deep Learning, Software Developement, Financial Analysis, Economics*