SOWDARJYA KOLAY

Howrah, West Bengal, India

📞 +91-8697581986 ✉ [Email](#) in [Linkedin](#) ⊙ [GitHub](#) 🌐 [sowdarjyakolay.xyz](#)

Summary

Passionate Full Stack Developer specializing in MERN stack with hands-on experience in building scalable web applications. Currently pursuing B.Tech in Electronics & Communication Engineering at Academy of Technology (MAKAUT). Proven track record in leading development teams, contributing to open-source projects, and participating in hackathons. Strong expertise in modern web technologies, blockchain development, and collaborative problem-solving.

Technical Skills

Languages: JavaScript, TypeScript, Python, Solidity
Frontend: React.js, Next.js, React Native, Redux, Tailwind CSS
Backend: Node.js, Express.js, GraphQL, WebSockets
Database: MongoDB, PostgreSQL, Firebase, Redis
DevOps & Tools: Git, GitHub, Docker, AWS, Vercel, Postman, CI/CD
Blockchain: Ethereum, Smart Contracts, Web3.js, Hardhat, Truffle

Experience

Students' Chapter of IEI ECE —— Academy of Technology **October 2025 – Present**
Full Stack Engineer *Remote*
- Developing full-stack MERN applications for institutional activities
- Collaborating with teams to deliver scalable and efficient web solutions
- Building responsive UIs and optimizing backend APIs

GDG On Campus AOT **September 2024 – Present**
Full Stack Engineer & Web-Dev Co-Lead *West Bengal, India*
- Leading web development projects and guiding junior developers
- Setting best practices for code quality and agile workflows

BlockseBlock **July 2025 – August 2025**
Blockchain Developer *Remote*
- Built and tested smart contracts in Rust for the Internet Computer (ICP) ecosystem
- Implemented Web3 integrations to connect frontends with ICP canisters
- Contributed to secure and efficient blockchain-based application features

Projects

JobPair AI | *TypeScript, Next.js, PostgreSQL, Tailwind CSS* **2025**
- Engineered an AI-powered career platform with smart resume analysis, personalized career roadmaps, and cover letter generation using advanced NLP algorithms
- Implemented voice-based mock interview system with real-time feedback, enhancing interview preparation experience
- Built scalable backend with PostgreSQL and integrated Clerk authentication for secure user management
- Deployed on Vercel with optimized performance: [jobpair-ai.vercel.app](#)

EthPay | *TypeScript, React, Solidity, Ethers.js, Tailwind CSS* **2024**
- Built a decentralized payment dApp enabling secure ETH transfers with custom messages and keywords on Ethereum
- Developed and deployed smart contracts using Solidity with comprehensive security testing and gas optimization
- Integrated MetaMask wallet connection using Ethers.js for seamless blockchain interactions
- Live at: [eth-pay-pearl.vercel.app](#)

CoinScope | *JavaScript, React, Firebase, Tailwind CSS* **2024**
- Created a comprehensive cryptocurrency tracking platform monitoring 99+ cryptocurrencies with real-time price data
- Implemented user authentication and personalized watchlists using Firebase for data persistence
- Integrated live crypto news feed and multi-currency conversion with responsive design for optimal UX

Education

Academy of Technology (Affiliated to MAKAUT) **2023 – 2027**
Bachelor of Technology in Electronics & Communication Engineering *Hooghly, West Bengal*
- Relevant Coursework: Digital Electronics, Analog Circuits, Signals and Systems, DSP, Digital Communication

Achievements & Activities

Hackathons: Active participant in multiple national-level hackathons with focus on web and blockchain solutions
Open Source: Regular contributor to open-source projects on GitHub with focus on React and Node.js ecosystems
Leadership: Successfully led development teams in GDG organizing technical events for 200+ participants