

Souvik Chattaraj

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SKILLS

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|-------------------------------|---|
| Languages: | C++, Java, C, Python, JavaScript |
| Tools/Platforms: | AWS (EC2, S3, IAM), Docker, Kubernetes, CI/CD (GitHub Actions), Linux |
| Web & Backend: | Node.js, Express.js, React.js, REST APIs, Microservices Architecture |
| Databases: | MySQL, MongoDB |
| Scripting & Tools: | Bash, Git, GitHub |
| Soft Skills: | Problem-Solving, Strong Communication, Team Collaboration, Adaptability |

PROJECTS

Scalable E-commerce Microservices Deployment | MERN, AWS, Docker, Kubernetes, GitHub Actions Mar 25

- Developed a MERN e-commerce platform, refactored it into microservices, and integrated Prometheus and Grafana to enhance maintainability and observability
- Containerized services with Docker and orchestrated deployments using Kubernetes (Minikube), enabling efficient resource use, automated scheduling, and scalable service management
- Built CI/CD pipelines using GitHub Actions to automate end-to-end build, testing, and deployment workflows
- Deployed and managed the app on AWS EC2, implementing secure configs, inter-service communication, and fault-tolerant design using Auto Scaling Groups and Elastic Load Balancing

Shinobi – Food Delivery Platform | React.js, Node.js, Express.js, MongoDB Feb 25

- Made a MERN app with RBAC (customers, owners, delivery), JWT auth, and 20+ REST APIs using MVC architecture
- Designed backend services for 6-stage order lifecycle, implementing polling-based updates (5–10s) and OTP verification to reduce fraud and ensure secure transaction
- Engineered geolocation-based restaurant discovery using Leaflet.js and Geolocation APIs with marker clustering, handling 50+ locations efficiently
- Employed containerized services with GitHub CI/CD on Render and Vercel, ensuring 99%+ uptime, sub-10s latency, and reliable multi-role access

Nexus- Real Time Chat App | React.js, HTML, CSS, AES-256 Jul 25

- Created a real-time chat application using React JS and Crypto-JS with AES-based symmetric encryption for secure communication
- Implemented end-to-end encrypted messaging using AES-256, enabling secure message delivery with <100ms encryption/decryption time per chat
- Delivered scalable & privacy-focused chat system ensuring confidential data exchange with zero plaintext storage

SUMMER TRAINING

Lovely Professional University Jun 25 - Jul 25

Cyber Security Essential

- Gained cybersecurity knowledge, including attack vectors, vulnerabilities, encryption, authentication
- Learned fundamental security concepts such as encryption basics, network safety, and data protection
- Advanced a simple Multifactor Cryptographic Authentication System using secure hashing and OTP

CERTIFICATE

AWS Academy Graduate - AWS Academy Cloud Foundations | AWS Academy | [Link](#) May 25

Google Crash Course on Python | Coursera | [Link](#) Dec 23

Responsive Web Design | Free Code Camp | [Link](#) Oct 23

ACHIEVEMENTS

Achieved 1st position in Group Discussion at English Unplugged, Lovely Professional University May 25

Hosted the hackathon “Code Storm” as the event speaker at Lovely Professional University Dec 23

EDUCATION

Lovely Professional University Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering; CGPA: 6.64 Aug 23 – Present

Parbelia Colliery High School Purulia, West Bengal
Intermediate - Percentage: 80.20 Mar 22 – May 23

Parbelia Colliery High School Purulia, West Bengal
Matriculation - Percentage: 79.80 Mar 19 – May 20