

Krishnava Ghosh

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Kolkata, West Bengal

SUMMARY



I am a **Computer undergrad with strong foundation in Typescript, Python, and full-stack development.** Currently pursuing B.Tech at Netaji Subhash Engineering College (CGPA: 8) with hands-on experience building scalable software solutions from concept to deployment.

EDUCATION

Netaji Subhash Engineering College –
Ongoing (Bachelors in Computer Science & Engineering) September, 2022 – Till Date;
CGPA: 8.0

M. P. Birla Foundation Higher Secondary School – *XII(ISC) August 2020 – July, 2022;*
%: 90.25

M. P. Birla Foundation Higher Secondary School – *X(ICSE)*

April, 2014 – July, 2020; %: 92.2

EXPERIENCE

SDE Intern at Aecho.ai – Ongoing

- Built a scalable AI-based recruiting platform from scratch using React + TypeScript, cutting hiring cycles from 2 - 3 months to under 7 days.
- Optimized frontend WebSocket handling, reducing real-time response latency from 40–60s to 2–3s, dramatically improving user experience.
- Integrated Azure Text-to-Speech with React to create a hyper-realistic interviewer voice persona.
- Designed and maintained backend services with FastAPI + Pydantic + PostgreSQL, ensuring high reliability and scalability.
- Delivered multiple end to end products using React, TypeScript, Tailwind CSS, FastAPI & SQLAlchemy.

Backend Intern at Avinya Neurotech

September, 2023 – March, 2024

- Researched and implemented ECG/EDF metadata extraction using Python's MNE library, enabling automated preprocessing for ML workflows.
- Built a contact microservice in FastAPI, added contact routes, and integrated SMTP-based automated emails for real-time user communication.
- Optimized WebSocket handling to send data points in chunks, reducing website traffic and improving real-time performance.
- Enhanced security in the authentication microservice by adding a refresh token mechanism and Redis-based token blocklisting.

ACHIEVEMENTS

1. Tech Lead at Phoenix(Tech Club) ([link](#))
2. Runners Up at Geekathon 1.0 by VIT AP ([verify](#))

SKILLS

Programming languages: C, Python, SQL, JavaScript, TypeScript.

Developer Tools: Git, GitHub, Docker, Bash

Libraries & Frameworks:

TailwindCSS, Websockets, PostgreSQL, React, Redis, Node.js, Express, Pydantic, FastAPI.

Core Competencies:

WebApp Design & SaaS Development, Cloud Architecture Deployment, High Level System Design.

LANGUAGES

English, Hindi, Bengali

PROJECTS

1. GenAI based Tour Planning App for Indian Tourism Sector (Group Project)

- Built an MVP for destination searching and travel planning using OpenAI API, React, Typescript, Nodejs, Express and MongoDB. Integrated Google Maps API and virtual tour using GCP for visualization.
- I built the Frontend End to End styling it with tailwind CSS and DaisyUI. Parsed LLM response to show markdown in frontend
- Handled Maps API in the frontend, Improved User Experience using memoization.

2. KirbyWallet| [\(Github\)](#) [\(live\)](#)

Built a cross-chain Hierarchical Deterministic (HD) wallet supporting both Solana and Ethereum networks using solana-web3.js and ethers.js libraries for seamless multi-blockchain asset management.

- Implemented secure token transactions with JSON-RPC requests through Alchemy API, enabling users to send and receive SOL, ETH, and SPL/ERC-20 tokens with real-time balance updates.
- Developed intuitive frontend interface for wallet creation, seed phrase management, and transaction history tracking, ensuring user-friendly experience across different blockchain protocols.
- Integrated wallet derivation algorithms to generate multiple accounts from a single seed phrase, providing enhanced security and organization for users managing multiple crypto assets.