

ARKAPRABHA CHAKRABORTY

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OBJECTIVE

Computer Science Student with a solid foundation in software development, cloud compute, system administration, automation, and containerization. Seeking to contribute innovative solutions and expand technical expertise in a dynamic, product-focused tech environment.

EDUCATION

Bachelor of Technology in Computer Science and Engineering, University of Engineering & Management, Kolkata
Expected 2026

CGPA: 8.4 (till 4th semester)

Indian School Certificate, St. Xavier's Institution, Panihati
Percentage: 86

2019 - 2021

SKILLS

Programming Languages	JavaScript, TypeScript, Rust, Golang, Java, C++
Web Development	React.js, Next.js, Echo, goquery, Tailwind CSS, Shadcn/UI, MUI
Cloud Compute	Docker, Nginx, Git, AWS, Oracle Cloud, Vercel, Nextcloud
SysAdmin & DevOps	Bash, RHEL, Debian, Vim, Cron, Rsync, Firewalls (iptables, UFW)
Databases	PostgreSQL, SQLite

PROJECTS

BoostStats — [GitHub](#) Next.js, goquery, Golang, TypeScript, Tailwind CSS
Developed a progress dashboard for the GDG UEM Kolkata team to track achievements, badges, and overall student progress. The application features a sleek, responsive UI with data search and filter functionality.

Room — [GitHub](#) Next.js, WebSocket, SQLite, Docker, Golang, TypeScript, Tailwind CSS
Created a collaborative text editor enabling seamless multi-device editing. WebSockets are used for real-time communication between client and server. Key features include a user-friendly interface, persistent storage, and automatic cleanup after inactivity.

DownLink — [GitHub](#) React.js, Echo, yt-dlp, ffmpeg, Docker, Golang, JavaScript, Tailwind CSS
Developed an online tool for downloading YouTube videos and Instagram reels with a simple and straightforward interface. The tool is containerized for easy deployment on self-hosted Linux servers.

RUSTCM-CLI — [GitHub](#) Rust, XChaCha20-Poly1305
Built a command-line tool implementing XChaCha20-Poly1305 for high-performance, authenticated cryptographic operations with resistance to side-channel attacks.

CodeShare — [GitHub](#) Next.js, PostgreSQL, Echo, Docker, Golang, TypeScript, Tailwind CSS
Created a code snippet sharing service. Features syntax highlighting, and snippets can be shared using a short 6-letter code.

ExprEval++ — [GitHub](#) C++, GNU Make
Wrote an arithmetic evaluator in C++ using OOP paradigm. Uses a lexer to parse expressions and turn them into Abstract Syntax Trees before the final evaluation.

EXTRA-CURRICULAR ACTIVITIES

- Volunteering as Open Source Lead at [GDG UEM Kolkata](#), guiding approximately 900 students in my area of expertise through GDG on Campus.
- Taught foundations of development and programming to second-year college students to help them enhance their technical skills.