

Rajarshi Chakraborty

Portfolio | [GitHub](#) | [LinkedIn](#) | [LeetCode](#)

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EXPERIENCE

- **Brand Voy** London, United Kingdom
Software Engineer Intern Aug 2026 – Present
 - **Feature Development:** Designed, developed, and maintained scalable, user-focused features for production software using **JavaScript/TypeScript, Node.js, and React**, collaborating cross-functionally across the **full software development lifecycle (SDLC)** to ship **6+** releases within the first month.
 - **Performance & Reliability:** Profiled and optimized application performance across the stack, reducing average **API response time by 22%** and resolving **15+** technical issues, by refactoring core service logic, tuning database queries, and following **Agile/Scrum** and **CI/CD** best practices.
- **Techno Main Salt Lake** Kolkata
Undergraduate Researcher 2026 – Present
 - **Forecasting Accuracy:** Built and validated **LSTM, ARIMA, and RNN** models for weather forecasting on time-series data, improving prediction reliability by **28.75%** over baseline statistical methods through systematic backtesting.
 - **Deployment Pipeline:** Converted research notebooks into a **reusable, deployment-ready pipeline** (Python, NumPy, Pandas, Scikit-learn, PyTorch, Node.js), training models on a dataset of **60,000+** rows and cutting the time to retrain and redeploy a new model from days to hours.

SKILLS

- **Primary:** JavaScript, TypeScript, Python, Node.js, Express.js, RESTful API Design
- **Secondary:** React, Next.js, SQL, PostgreSQL, MongoDB, Prisma, Drizzle ORM, Mongoose, Pinecone, LangChain
- **Others:** Java, Bash, Git, Docker, Postman, CI/CD Pipelines, Linux, Payment Gateway Integration

PROJECTS

- **ExeOS-AI** – AI-Powered Executive Operating System [[Demo](#)] | [[GitHub](#)] Jul 2026
 - Consolidated email, calendar, tasks, and notes into a single dashboard, cutting daily tool-switching across four disconnected apps by an estimated **98%**, by building a **unified AI workspace** with **Next.js 16, React 19 Server Components, and TypeScript**.
 - Eliminated an entire class of runtime errors from malformed responses across **integrated LLM providers, OpenAI GPT-4o-mini**, cutting production type-mismatch failures by **76.42%**, by defining strict **Zod schemas** to validate and type every request/response payload.
 - Enabled secure multi-tenant usage for organizations sharing one instance while keeping data-retrieval latency under **800ms** as record counts grew, by implementing **multi-user auth and org management with Clerk** and tuning **PostgreSQL** queries via **Drizzle ORM**.
- **ReviewRay** – AI-Powered Code Review Engine [[Demo](#)] | [[GitHub](#)] Jun – Jul 2026
 - Achieved a **92% developer acceptance rate** on AI-generated suggestions, by building a codebase-aware **Retrieval-Augmented Generation (RAG)** pipeline with **Pinecone** vector search and **OpenRouter** multi-model inference.
 - Processed GitHub pull-request webhook using **Octokit** payloads in under **200ms** with **99.9% background job reliability**, by developing an **event-driven task worker** with **Inngest**.
 - Cut **PostgreSQL** query execution time by **45%** under heavy repository-sync load, by designing targeted index strategies and using **Prisma ORM** with native connection pooling.
- **Zenith CLI** – AI-Powered Developer Workspace & CLI [[Demo](#)] | [[GitHub](#)] May – Jul 2026
 - Grew adoption to **1,350+ downloads on npm**, by shipping a **Bun-powered** terminal CLI paired with a **Next.js** glassmorphic web dashboard for full-stack local-to-cloud tooling.
 - Enabled secure terminal-to-web sign-in without ever exposing credentials, reducing manual credential handling to **zero** touchpoints, by implementing the **OAuth 2.0 Device Authorization Flow (RFC 8628)** with **Better Auth** for **GitHub OAuth**.
- **SynapseUI** – React UI Component Library [[Demo](#)] | [[GitHub](#)] Apr – May 2026
 - Cut UI boilerplate for new React/Next.js projects by an estimated **88%**, by publishing an open-source **component library** of **150+ premium components**, installable via copy-paste or the **ShadCN-CLI**.
 - Made integration self-serve for consumers, by shipping full **Fumadocs**-powered documentation with live component previews across **150+** documented components.
- **SocketPoll** – Real-Time Polling App [[Demo](#)] | [[GitHub](#)] May 2026
 - Eliminated perceived vote-count lag for users voting live, by building a **RESTful Express.js API** paired with **Socket.IO** for bidirectional real-time updates, propagating poll results to all connected clients in **300–500ms**.
 - Prevented state collisions across concurrent poll sessions on a shared server, tested against **24+** simultaneous rooms, by introducing **room-based namespace isolation** and in-memory state scoping.

EDUCATION

- **Techno Main Salt Lake** Kolkata, India
Bachelor of Technology in Computer Science and Engineering (IoT); GPA: 8.136 July 2023 – Present

HONORS & CODING PLATFORMS

- Solved **660+** problems on [LeetCode](#) (**10+** contests), **520+** problems on [GeeksforGeeks](#), and **140+** problems on [Masterji](#) with a **1700+** coding score, demonstrating strong **data structures, algorithms, and competitive programming** proficiency.