

EDUCATION

- Siliguri Institute of Technology | MAKAUT - June 2021 - June 2025
B.Tech in **Computer Science and Engineering** (4 years) **CGPA - 8.70**
- Sarwan Memorial School (ICSE) - 2007 - 2019
Percentage - 88.8%

TECHNICAL SKILLS

- Programming & Scripting Languages** : C++, TypeScript, JavaScript, Python
- Frameworks, Libraries & Development Tools** : Next.js, React, Express.js, WebAssembly, Raylib Visual Basic .NET
- Cloud Infrastructure & Virtualization** : Azure, Google Cloud Platform, Docker, Linux, Nginx, VMware, Nutanix Cloud Platform
- Databases, Caching & Developer Tools** : MongoDB, PostgreSQL, MySQL, Redis, Git, Postman
- Cerifications** : Cisco certified network associate (CCNA), JavaScript Data Structures and Algorithms (freeCodeCamp)

EXPERIENCE

Technical Consultant | Freelance

BugleRock Capital | Aug 2025

- Improved *deckit.ai* (AI-powered presentation tool)** by engineering **real-time streaming** functionality with **Next.js**, integrating **external APIs**, dynamically injecting **CSS**, and **refactoring** the codebase for efficiency. Implemented **intelligent caching** for **near-zero latency** data transfers and **optimized API usage**, reducing **Claude API calls by 40%** and cutting **operational costs**.

System Reliability Engineer | Intern

Nutanix | Jan 2025 - Jun 2025

- Executed infrastructure and full-stack development tasks** across **Linux systems**, **networking**, **containerization**, and **virtualization**, driving platform reliability and scalability. Delivered production-ready environments, automated provisioning, and backend integrations that **improved system efficiency by 30%**.
- Built and managed Linux-based environments**, including installing and configuring distros, managing users and permissions, and handling system-level tasks like mounting storage, setting up **SSH**, configured **critical services**.
- Configured enterprise networks** (CCNA standards): set up **VLANs**, **routing**, **IP addressing**, and **switches**, resolving connectivity issues across physical and virtual interfaces with **99% uptime**.
- Automated container workflows**: created user-specific **Docker containers**, wrote **Bash scripts**, and deployed multi-container environments with **docker-compose**, cutting deployment time from hours to **minutes**.
- Developed scalable apps**: migrated frontends from **JavaScript** to **React**, and built **Django REST APIs** to support Next.js dashboards, **enabling real-time data flow** and reducing page load times by **40%**.
- Managed Nutanix HCI clusters**: added nodes, configured high-availability, and monitored **Prism Central**, ensuring balanced resources and stable clusters with **zero downtime incidents**.

Backend Developer | Core Team

GDSC Siliguri | Jun 2022 - Jun 2024

- Developed and maintained the club website backend** using **Express.js**, designing and integrating **REST APIs**, implementing **rate limiting**, and **deploying on Google Cloud Platform (GCP)** with **Nginx** as a reverse proxy. Optimized system reliability and security, enabling smooth scaling for **100+ active users**.
- Led technical initiatives** by conducting webinars and organizing **AI and emerging tech workshops**, **mentoring 50+ peers** and strengthening the club's developer community.

PROJECTS

- SEC Intelligence - *secintel.tech*** : **Processed 1,000+ SEC filings** (10-K, 10-Q, 8-K) by **parsing XML** and **extracting financial data** (balance sheets, income statements, factual highlights). Built a **RAG pipeline** with **HuggingFace embeddings**, **ChromaDB** (100K+ vectors), **LlamaIndex**, and **Groq**, achieving **~90% accurate** document retrieval and synthesis. **Hosted the platform online** with an overall architecture cost of **\$0**.
- Order Matching Engine - *Article*** : Built a **high-performance engine in C++** using **Red-Black Trees** to efficiently manage **BUY/SELL** orders parsed from JSON. Designed matching logic prioritizing **volume-maximizing trades** over price, dynamically updating order books to simulate a **real-time exchange environment**.
- jwt-authx - *npm package*** : Developed and published a **TypeScript-based OAuth authentication system** with **OTP verification**, **JWT security**, **modular MVC architecture**, and **MongoDB integration**. Implemented **secure cookie management** to mitigate 99.9% of common security vulnerabilities. Achieved **146 downloads within 19 hours** of release on npm.

COMMUNITY EXPERIENCE AND ACHIEVEMENTS

- Contributing to **open-source projects** - **Gitlab**, **twenty**, **Grafana** and more.
- Tech writer at **Medium** with **over 12+ published articles** on software development topics. (Account: [nishant19072003](#))
- Achieved **6th place** at Gitlab hackathon. **Merged 8 pull requests** and became a Level 2 contributor.
- Winner of intra-college hackathons **CodeKraft**, **CodeXQuest** and **TechFrenzy**.
- Solved **420+ algorithmic problems** on LeetCode. (Account: [nishant892](#))