

# Shanit Kumar Paul

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## Education

Graduation: B.Tech (CSE) Academy of Technology, Hooghly CGPA: 8.97/10 ('24) | 12<sup>th</sup> – 83.4% ('19) | 10<sup>th</sup> – 88% ('17)

## Experiences

### Siemens Technology and Services Private Limited - Software Developer

July 2024 - present

- Enhanced **CKAN 2.10.4** by creating custom extensions with new Jinja2-based pages and multiple Python routes, enabling multi-resource upload (files/CSV), dynamic tag definition modals, and API integrations. Streamlined backend workflows, migrated 1L+ records, and improved dataset UX for 5+ internal teams.
- Developed reusable web components (micro frontends) like **charts**, **maps**, and **cards**, leveraging **Highcharts** and **Mapbox** in **Angular 19** and **React**, packaged through a **private registry** to create customizable dashboards, **Keycloak** for authentication, and supporting **multiple layout** options. Wrote test cases in **Jest** with more than **85%** coverage.
- Composed reusable UI components library in **Angular 17** on top of **Bootstrap**, including all **form** components and modules like **loaders**, **skeleton loaders**, **menu-lists**, ensuring scalable design across internal products.
- Implemented highly customizable **Drag-n-Drop** Dashboard Builder POC using Micro Frontends in **Angular 19** with **Gridster.js**, supporting widgets of different types. Integrated **layout persistence** using local and session storage.

### Frontend Intern

Jan 2024 - June 2024

- Innovated a **GIS-based** application built on **Angular 17** with **Mapbox** and **Highcharts**, achieving **60%** reduction in code smells and **>90%** code coverage with **Jest**. Developed **2** data extensive dashboards with **Dynamic charts**.
- Conducted **POCs** to optimize the use of animation libraries like **GSAP**, **Framer Motion**, **Three.js**, **R3f**, **AOS**, etc.

### Abhyaz - Frontend Intern

Dec 2022 - Jan 2023

- Restructured and improved the **SEO** of **3 pages** of Abhyaz by an impressive **40%**.
- Conceptualized and created a new site **CNC Train** using **ZOHO editor** with another intern in 2 weeks.

## Technical Skills

- Programming Languages:** Java, Typescript, Javascript, Rust, Python
- Frontend:** React, Angular, Webpack, HTML, CSS, Redux, GSAP, Jinja2, Highcharts, Charts.js, D3, Mapbox, Bootstrap
- Backend and Database:** Node.js, Express, RestAPI, JWT, MongoDB, SQL, Postgres, Firebase, Flask
- Others:** Git, Github, Jest, Jasmine, Docker, CI/CD, Keycloak, CKAN, Figma, Ollama

## Projects

### Redo:

(Tech stack: React, Typescript, Node.js, Ollama) || [Github](#)

- Building an RPG-style self-improvement app with XP, quests, streaks, and stat-based progression. Combining the feedback loop of games to benefit daily life activities with milestone rewards and status effects.
- Integrating LLMs for adaptive quest generation, mood-aware stat adjustments, and an AI mentor. Planning **Ollama**-based local AI deployment using **Mistral/Qwen** for offline, privacy-first quest generation and sentiment analysis.

### Vewrite:

(Tech stack: React, Firebase, Quill.js) || [Github](#) | [Web-app](#)

- A site to give content writers an exclusive platform where they can write, edit, store, and showcase their work.
- Features include **Creating a Draft**, **Real-Time Collab**, **Text Editing**, **Draft Management** and **User Profile**.

### Qnect:

(Tech stack: Node.js, MongoDB, React, Express, GSAP) || [Github](#)

- Built a full-stack social networking platform for college communities with **MERN** stack. Implemented **QnA**, **Likes**, **Comments**, and **Real-time Notifications** with optimized **Redux** state management and **Framer Motion** animations.

## Achievements

- Published **30+ tech articles** on **LinkedIn**, **Hashnode** and **Medium** on **DSA**, **SDE** topics with a total of **10k+ views**.
- Organized **6 events** like **Tech Quiz**, **Hackathons** etc. engaging **1000+** students including a **Tech Fest**.

## Certifications

- Core Java** by **Linkedin Learning** – [HERE](#) || **Java Full Stack** Course by **TalenNext**, **Wipro** - [HERE](#)
- Block chain** and **Cryptocurrency** Fundamentals by **University of Michigan** on Coursera- [HERE](#)
- Rust** for Java Developers - [HERE](#) || **Rust Essential Training** - [HERE](#) || **Level-Up Rust** - [HERE](#) ( by **Linkedin Learning** )