

SRIJOY PAUL

Kolkata, West Bengal, India 712245

+91 9308063331 srijoykumar1507@gmail.com [linkedin.com/in/srijoy-paul](https://www.linkedin.com/in/srijoy-paul) github.com/srijoy-paul

Education

RVS College of Engineering and Technology

Bachelor of Technology in Computer Science, CGPA : 8.05

Nov. 2022 – April 2025

Jamshedpur

DR. B.C. Roy Polytechnic

Diploma in Computer Science, CGPA : 8.5

Aug. 2019 – July 2022

Durgapur, West Bengal

Experience

Vizal.AI

Aug 2024 – Oct 2024

FullStack Software Engineer Intern

Bengaluru

- Developed a scalable video calling and chat system, reducing latency by **30%** using **WebRTC** and **WebSockets**.
- Built and optimized responsive UI components for dashboards and customer facing widgets using **React**, **Framer Motion**, implementing **React.memo**, **lazy loading**, and **code splitting**, improving load times by **25%**.
- Contributed to deployment lifecycle, by reducing downtime by **50%** and increasing speed using **Docker**, **GCP**, and **Cloudflare**, **GitHub Actions**. Documentation of internal APIs.
- Developed an in-memory key-value cache for real-time statuses, reducing queries, boosting response times & scalability.
- Designed & implemented scalable **PostgreSQL** schema using detailed **ERDs**, **normalization**, optimized data types, selective triggers integrated with **DB** migrations and **version control** with teamwork and collaboration.
- Engaged in **System Architecture** design, Agile sprint planning, and technical evaluations, documenting decisions ensuring alignment with best practices in clean coding, code reviews, version control, testing, and deployment.

Projects

ResumeMatchAI [Link](#) | Python, SK-Learn, NLTK, TF-IDF, Cosine Similarity

November 2024

- Built spaCy NLP pipeline(NER,tokenization,lemmatization)to vectorize unstructured resumes & JDs into embeddings.
- Built and optimized a semantic matching model (TF-IDF + Cosine Similarity) to score candidate-job fit, achieving **80%+** alignment accuracy on a 1K+ resume / 160K+ JD test set.
- AI-driven strategic gap analysis identifies missing keywords and skill gaps, then suggests tailored resume improvements.

CodeSphere [Link](#) | TypeScript, React, NodeJS, PseudoTerminals, AWS s3, EKS, Docker, Kubernetes

May 2024

- Built a **Web IDE** like Replit, initially running on a **single machine** or **EC2** instance with S3 for storage, allowing users to select tech stacks and start coding for long time.
- Utilized Monaco Editor, Xterm.js, and **Node-PTY** for **peseduo terminals** and process management, optimized performance by implementing **event driven** architecture triggering realtime **debounced** saves on **S3** storage for session data on code edits, reducing **execution delays** by **20%** and improving **load times** by **15%**.
- Caching session data, and static assets using a read-through strategy for infrequently changing resources.
- Discovery of scalability and security limitations in the initial design, leading to network conflicts, lack of sesion isolation.
- Enhanced security & session isolation by migrating to **Kubernetes** and **AWS EKS**, solving network conflicts and scaling issues.

BengalBiteExpress [Link](#) | TypeScript, React, ShadcnUI, ReactQuery, Hook-forms, PostgreSQL, Stripe

March 2024

- Developed a modern, AI-powered food ordering web application promoting Bengali cuisine, with user-friendly UI/UX, advanced search/filter features using **Tailwind**, and secure **Auth0** social logins.
- Integrated comprehensive restaurant management, **Cloudinary** for image processing and uploads, AI-generated images, and seamless **Stripe** payment processing, ensuring a smooth ordering experience with industry-standard code practices.
- Implemented detailed order tracking and management, enhancing user and restaurant owner interaction and efficiency.
- Implemented unit tests for React components using **React Testing Library**, ensuring code reliability.

Technical Skills

Languages:C Programming, C++ , **JavaScript**, Java

Frontend:HTML, CSS, Bootstrap, **TailWind**, JavaScript(**ES6**), **TypeScript**, **React.js**, MUI, **Redux Toolkit**

Backend & Database:Node.js, **ExpressJS**, **Firebase**, **PostgreSQL**, **MongoDB(NoSQL)**, Sequelize & Prisma ORM

Cloud & Technologies:Linux, **Docker**, **Kubernetes**, AWS (S3, EKS, etc), Git, **GitHub**, **Webpack**, **Babel**, **NPM**

Achievements & Certifications

10th place globally (out of 750 teams) in HackSquad.dev

3rd position in Devsnest internal Hackathon

Namaste React Course Certificate