

KUNAL PAL

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TECHNICAL SKILLS

Languages: C, C++, Java, Dart, JavaScript, Python, Typescript | **Frontend:** Flutter, React.js, Redux, Next.js

Backend: Node.js, Express.js, FastAPI, Docker, AWS, EC2, S3, Azure, Firebase, Cloud Firestore, MongoDB, MySQL

EXPERIENCE

- **Sortly Technologies Pvt Ltd** June 2024 - Present
Software Engineer 1
 - Implemented scan-only seat option for enterprise plan, catering to **15+** large customers, generating **\$30K+** annual revenue.
 - Developed PDF export feature for pick lists, and invoices workflows handling **10K+** operations/month, leveraging **React.js**, **ReactDOMServer**, **AWS Lambda**, and **ESbuild** for dynamic HTML layout generation and serverless processing.
 - Introduced new print labels support receiving **350+** clicks/hr, moved legacy forms to **react-hook-form** for better efficiency.
 - Developed a concept to mitigate **XSS**, **CSRF attack** risks by shifting client authentication to web cookies utilizing **AWS Cloudfront** as reverse proxy.
- **Alphaherd Veterinary Pvt Ltd** Jan. 2024 - Jun. 2024
Founding Software Engineer
 - Led clinic management web app development from concept to deployment covering Inventory, Finance, and Database.
 - Configured and provisioned **Azure resources**, Integrated CI/CD pipelines utilizing **Github Actions** and **Azure App Service**.
 - Led the team of **4 developers** and shipped to production in **5 months** with proper testing to enable clients onboarding.
 - Technologies: **Next.js**, **Redux-Toolkit**, **Prisma & Azure Cosmos DB**. Ensuring proper workflows, code reviews & practices.
- **I'mbesideyou Inc. Japan** May. 2023 - July. 2023
Software Engineer Internship
 - Developed a full-stack therapist consulting MVP enabling seamless client management, scheduling, and therapy analysis.
 - Implemented therapist side dashboard in **React.js** and **Redux Toolkit**, and contributed **40%** components in design system.
 - Designed efficient relational-schema, Implemented & integrated serverless APIs using **AWS Lambda**, **AWS RDS database**.
- **OneStop: IIT Guwahati student mobile application** Apr. 2022 - Apr 2024
Project Lead : Students' Web Committee [App Link](#) | [Github](#)
 - Spearheaded mobile application development for college with features like Cab Sharing, Academic Timetable, Lost/Found.
 - Engineered backend infrastructure & efficient database schemas, setup CI/CD pipelines to automate development workflow.
 - Serves traffic of **7000+** monthly & **3000+** daily active users. Technologies: **Flutter**, **Express.js**, **MongoDB & Docker**.
 - Deployed using **Amazon EC2**, with **Nginx** as a reverse proxy and **PM2** for multi-instance configuration inside container.

ACHIEVEMENTS

- **Smart India Hackathon 2023:** Selected for **National Finals** in software edition for cybersecurity domain (ID: 1381).
- **Yandex Cup 2022:** Qualified for Competitive Programming **World Finals** of Yandex Cup 2022 with global rank **536**.
- **Codeforces:** Maximum rating of **1562 (Specialist)**, Handle: [DarkLord_20](#) and participated in 100+ contests.
- **Google Kickstart Competition:** Achieved **1101** global rank in Round A 2023 and **1509** global rank in Round G 2022.
- **Meta Hackercup:** Secured world rank **1613** round 2 in 2022, **1755** round 2 in 2024. Won prize from Meta for top rank
- **Major League Hacking (MLH) Prep Fellowship:** Selected among **20000+** applicants for October 2022 batch.

EDUCATION

- **Indian Institute of Technology, Guwahati | Bachelor of Technology (B.Tech)** CGPA: 7.7/10 | 2020 - 2024

PROJECTS

- **ShopAI: Conversational Outfit Recommender** Aug. 2023
Flipkart Grid 5.0 Semi-Finals [Video Demo](#) | [Github](#)
 - Developed a fashion recommendation website for **Flipkart**, suggesting outfits based on trends, instructions, cart history.
 - Fine tuned **ChatGPT-3.5-turbo API**'s prompt for recommendations and deployed using **FastAPI & Docker** on HuggingFace.
 - Used **React.js** and Material UI for Web Interface and deployed a **WhatsApp bot** with **Twilio API** integration for accessibility.

POSITION OF RESPONSIBILITY

- **Institute General Secretary, Students' Web Committee**, Student's Council IIT Guwahati, India 2023-2024
 - Led **80 members** team including developers, and designers for development of software projects impacting **8000+** students.
 - Managed development of Institute's Placement & Election Portal. Represented students in **institute policy-making** forums.