

# Roshan Jagadish

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## Education

**B.E. Computer Science and Engineering**, *Chennai Institute of Technology*    2021 – Present | Chennai, India  
CGPA - 8.7

## Internship

**Founding Software Engineer (Internship)**, *BLOUDONE JEWELLERY AND VSTYLE Private Limited (bcloudone.in)*    June 2023 – Present | Bangalore, India

- Led end-to-end development of an e-commerce store for jewellery with a robust admin panel with over **9+ panels**.
- Integrated payment gateways, including **PhonePe**, **CCAvenue**, and **Razorpay**, implemented **SMS** and **email** notification systems, expanding **100% secure payment** options and increasing customer satisfaction by **80%**.
- Utilized NextJS, TRPC, Prisma, PostgreSQL, Docker, and AWS technologies to drive scalable solutions for **0% downtime**.
- Developed the **entire mobile application from scratch** using Expo React Native and published it to **Google Play Store**.

**Project Intern**, *Cognizant Technology Solutions*    November 2022 | Chennai, India

- Worked on mixed reality applications and the HoloLens 2.
- Delivered 2 user-intuitive applications for the MR Device.

## Projects

**SpringShed Management System**, *Next.js, tRPC, Prisma, PostgreSQL, Firebase, C++, ML Models (springsense.vercel.app)*    ☑

- Developed a cutting-edge SpringShed Management System, deploying **9 IoT devices** at each spring for data collection.
- Integrated these sensors to capture **real-time telemetry** from **3 IoT modules**, providing insightful data on each spring's water resource and also implemented **6 real-time graphs** for critical visualizations.
- Leveraged **2 machine learning models** for predictive analysis, forecasting rainfall and outflow dynamics.
- Recognized for excellence at the **Smart India Hackathon 2023** among **50000+** participants, validating the project's impact and innovation in national water resource management.

**Seating Arrangement Software**, *Next.js, tRPC, Prisma, PostgreSQL, Django (seating-project.vercel.app)*    ☑

- Developed and deployed a **robust** full-stack web application tailored for Chennai Institute of Technology (CIT), seamlessly automating seat allotment for **30+** examinations, including Semester Exams.
- Successfully managed the intricacies of over **5000+** students' details, ensuring a streamlined and efficient examination process.
- Generated **3 major documents**, such as Seating Plans, Attendance Copies and Notice Board Copies.
- Implemented techniques that reduced CIT Exam Cell's seat allotment process time by **75%**, enhancing overall efficiency.

**Chatie**, *Expo React Native, Express, Socket.IO, Drizzle*    ☑

- Developed a Full Stack Android application for messaging, image and video sharing, implementing over **7+ screens**.
- Integrated the backend server with **WebSockets** using SocketIO for realtime messaging and communication.
- Deployed the image storage and backend using **DigitalOcean**.

**Open Source Contributions**, *Algora.io*    ☑

- Contributed to Open Source Repositories, such as **Rowy**    ☑, **Dittofeed**    ☑ and **Zulip**    ☑.
- Completed paid bounties and achieved a **100% resolution rate**, resulting in successful merging of pull requests.

## Skills

**Web Development** — *React.js, TailwindCSS, HTML, CSS, JS, Next.js, Django, Prisma, tRPC, Drizzle, FastAPI, Express* |  
**App Development** — *React Native* | **Programming Languages** — *Python, C/C++, Java, SQL, TypeScript, JavaScript, Go, Rust* |  
**DevOps** — *GitHub, Docker* | **AR/VR/MR** — *Unity Engine, C#, Blender, Unreal Engine*

## Achievements

**Smart India Hackathon 2023 Winner**    December 2023  
Won PS. SIH1437 for the SpringShed Management System among **130 teams**, endorsed by the Ministry of Rural Development.

**InCTF Nationals, Team bi0s**    ☑    January 2022  
Secured 17th place overall and 3rd place in beginners in the Capture the Flag Competition.

## Responsibilities

**Mobile Development Executive (GDSC Core Team)**, *Google Developer Student Club - Chennai Institute of Technology*  
Conducted events for the club.