

Suyash Kumar Dubli

+91 8081977366 - suyashdubli@gmail.com - [Linkedin](#)

WORK EXPERIENCE

Software Development Engineer 2

Homelane, Bangalore

April 2023 - Present

- **Reduced design errors by 70%** by implementing 30+ automated rule-based validations using React and JavaScript; integrated backend rule configs via API to streamline quality checks and standardize design.
- **Generated INR 70L+** revenue in 3 months by leading integration of a custom wardrobe module; collaborated with backend and product teams to structure APIs, optimize 3D rendering pipelines, and improve user engagement.
- Enabled **smart room duplication** by developing a copy-paste feature that replicates props, paints, and furniture across rooms. Applied LLD principles, **integrated internal APIs** for layout transfer, and built **spatial adjustment algorithms** for precise visual mapping.
- Engineered a **context-aware prop placement** system, allowing single-click object insertion via algorithmic logic and API-triggered presets; significantly improved efficiency in custom room planning and reduced manual steps
- **Increased customer conversions** by implementing a shutter visualization feature, enabling users to switch between multiple design options. Utilized **advanced rendering techniques** to provide interactive design previews, leading to **higher engagement** and **conversion rates**.
- **Upgraded the 3D graphics library** using Three.js, **reducing 3D load times by 40%** and improving render quality. This optimization **enhanced rendering performance** and **resource management**, delivering a seamless user experience.

Software Development Engineer

Homelane, Bangalore

August 2021 - March 2023

- **Resolved 300+ live issues** through systematic debugging, root cause analysis, and performance profiling across frontend and API layers; improved **system reliability**, minimized client escalations, and ensured on-time project deliveries under tight deadlines.
- **Reduced production errors by 60%** for removable shelves by creating custom addition and update flow. Automated quality checks, minimized work, and boosted production efficiency by reducing manual intervention.
- **Implemented custom material integration** within the system, allowing designers to create and apply customized materials on 3D objects, leading to a **35% increase in adoption** and streamlining workflows for enhanced productivity and creativity.
- **Expanded product capabilities** by integrating 25+ custom puja units, including addition, material updates, and deletion flows, offering greater flexibility and driving a **significant improvement in customer engagement**.
- **Reduced installation errors by 20%** by developing orthographic views of 3D scenes with detailed information, resulting in **fewer reworks** and improved project efficiency, driving increased client satisfaction.
- **Engineered a 3D tool using object-oriented programming** that streamlined the onboarding of custom models, replacing a paid tool, and achieving **over 30% cost savings** for the company.

PROJECTS

Portfolio Website - React, Next.js, Tailwind CSS, EmailJS

- Built a modern, responsive personal portfolio showcasing experience and projects, with modular components for project listings, contact forms, and planned Three.js-based 3D integrations.

Splitwise Clone - Node.js, Express.js, MongoDB, React

- Developed a full-stack expense-sharing app replicating Splitwise features like group creation, expense tracking, and settlements using REST APIs, auth flows, and low-level system design for scalability and consistency.

EDUCATION

PES Institute of Technology

Computer Science and Engineering (CSE)

Bengaluru, Karnataka, India

2017 - 2021

SKILLS

Tech Stack: JavaScript, C++, React, Redux, Node.js, Express.js, HTML, CSS, MongoDB, Mongoose, REST APIs

Tools & Development: Git, GitHub, Jira, Chrome DevTools

System Design: Low-Level Design (proficient), High-Level Design (familiar), scalable API workflows

Focus Areas: Full-Stack Development, 3D Graphics, Data Structures & Algorithms