

# Lojith Vinsuka

Full Stack Software Engineer

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## About Me

Full Stack Engineer with 4+ years of experience in building and optimizing large-scale web applications. Specialized in **Angular, Node.js, and MongoDB**, with hands-on exposure to React, Next.js, Flutter, Firebase, AWS, and AI integrations. Highly adaptable, quick to learn new technologies, and interested in system design, scalability, performance optimization, security, and AI-driven solutions.

## Experience

### Full Stack Engineer – BuilderBid.com

*Jun 2021 – Present*

BuilderBid.com is an **estimating, bidding, CRM, and project management platform** for construction projects. Key contributions:

- Developed and maintained the **main BuilderBid app (Angular)**; collaborated with React team on CRM/Admin systems (shared authentication, separate backends).
- Built interactive **plan sheet drawing and measurement tools** using Konva.js, Redux, RxJS.
- Implemented cost estimating/spreadsheet features with FormulaJS.
- Automated **PDF-to-image conversion and uploads**.
- Integrated **Stripe subscriptions and payments**.
- Improved performance via **Web Workers**, UI virtualization, memory leak fixes, and database optimization.
- Designed and executed major database migration with minimal downtime.
- Mentored junior developers and conducted code reviews.

## Key Achievements

- Reduced frontend memory usage by **40%** through optimization and UI virtualization.
- Cut document upload/processing time by **30%**.
- Enhanced feature delivery velocity by mentoring juniors and streamlining code review.

## Selected Projects

- Real-time collaborative drawing app (**Next.js, React-Konva, Firebase**).
- Mobile apps using **Flutter** with cloud backends (Supabase, Firebase).
- Integrated external APIs (**Google APIs, OpenAI API**) and cloud storage (**AWS S3, Lambda**).
- Conducted testing with **Cypress** and manual QA.

## Skills

<b>Core Tech:</b>	Angular, Node.js, MongoDB, TypeScript, Redux
<b>Frontend:</b>	React, Next.js, Flutter, Konva.js
<b>Backend/Cloud:</b>	Firebase, Supabase, AWS (S3, Lambda), Google APIs
<b>AI/Automation:</b>	OpenAI API, AI model integrations, content generation
<b>Testing:</b>	Cypress, manual testing
<b>DevOps/Tools:</b>	Docker, Jenkins, Git
<b>Other:</b>	Python, Electron, REST APIs, third-party API integrations

## Areas of Interest

System design, architecture, scalability, performance optimization, security, AI-driven applications.

## Education

**BEng (Hons) Computer Software Engineering**

*London Metropolitan University, 2022-2023*

**National Diploma in Technology, Information Technology**

*University of Moratuwa, 2018-2021*

## References

Available upon request.