

POORIYA KETABI

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About me

My career bridges architectural design and software engineering. A childhood curiosity for how things work, first explored on the Commodore-64 and MS-DOS, grew into a discipline for building robust systems. I spent seven years as a Senior Architect, where I turned ambitious client ideas into reality by balancing cost, efficiency, and technical feasibility.

Today, I bring that same practical, user-focused approach to software, applying early lessons from legacy platforms to modern challenges, bringing clarity to existing codebases and designing reliable, accessible applications that deliver lasting value to users.

Technical Skills

Languages & Frameworks: JavaScript (ES6+), React, TailwindCSS, Node.js, Express.

Frontend: DOM manipulation, Responsive UI, Accessibility (Lighthouse 100).

Backend: REST APIs, Designing and Decomposing Software Systems, Working with Legacy Code.

Databases: PostgreSQL.

Testing: Jest (unit testing), TDD practices, Browser dev tools.

Tools & Practices: Git, GitHub, Postman, Code Review, Shell Scripting and Pipelines, and Unix Tools.

Deployment: GitHub Pages, Netlify, Coolify, Docker.

Projects

Mentoro Quiz app | [GitHub](#) - [Live Demo](#)

A full-stack web application designed for interactive, real-time learning. Enables mentors to create, manage, and host live quizzes, while students can join sessions and submit answers instantly.

Stacks: *JavaScript, React, TailwindCSS, Node.js, Express, WebSockets, PostgreSQL, Docker*

- Collaborated within a cross-functional team (Developers + Tech Lead + Product Manager) using Agile methodology with PR reviews, pair programming and sprint planning to deliver features iteratively.
- Developed a robust RESTful API for all core functionalities, handling user authentication, quiz management, and real-time scoring.
- Engineered a responsive and intuitive frontend with React, creating distinct, role-based UIs for mentors and students.
- Integrated WebSockets for live data synchronisation, ensuring sub-500ms latency for question delivery and instant answer feedback.
- Designed and implemented a normalised PostgreSQL schema, efficiently managing relationships between users, quizzes, and submissions.

PiTranslate app | [GitHub](#) - [Live Demo](#)

An AI-powered language learning companion to translate, learn idioms, and practise intelligently.

Stacks: *HTML, CSS, JavaScript, Node.js, Express, Firebase, OpenAI API, REST APIs*

- Integrated OpenAI API to deliver accurate translations, example sentences, synonyms, and idioms.
- Engineered interactive learning features such as text-to-speech, a spaced repetition review system, and personalised progress tracking to boost user retention.

- Optimised frontend rendering and backend API calls, achieving a 40% reduction in average response time and a Lighthouse performance score of 95+.
- Designed a responsive, accessible interface with persistent login and a frictionless trial mode for guest users.

Experience

Software Engineering Programme – CodeYourFuture *Full-time* | Sep 2024 – Present

- Built full-stack applications with JavaScript/Node.js and React, applying clean code, testing (Jest), and Git workflows.
- Collaborate in teams with regular code reviews and iterative delivery.
- Analysed and refactored complex legacy codebases, focusing on improving functionality, performance and maintainability.
- Applied principles of algorithmic complexity and optimisation techniques to address performance bottlenecks.

Web Developer – Freelance *Remote / Self-Employed* | 2023 – Present

- Delivered client-facing apps with responsive, accessible UIs and user-friendly interfaces.
- Managed full development cycle, from requirements gathering to deployment.
- Achieved 100% Lighthouse accessibility score on multiple client projects, improving usability and SEO rankings.

Chef (formerly Housekeeper) – Keppels Head Hotel *Part-time* | Apr 2023 – Present

- Promoted due to strong initiative and adaptability.
- Optimised kitchen prep process, cutting waste by 20% and improving nightly turnaround.
- Collaborated with team members to deliver consistent, high-quality service under tight deadlines.

Senior Architect – SISI Company *Full-time* | 2016 – 2023

- Led multi-disciplinary teams to deliver large-scale commercial and residential projects, from concept design to completion.
- Coordinated digital and construction workflows, integrating tools like AutoCAD, Revit, and project management systems to streamline collaboration.
- Designed and optimised complex building systems, applying problem-solving approaches similar to software architecture principles.
- Managed trade-offs between cost, performance, and sustainability, a skill directly transferable to software engineering decision-making.
- Mentored junior team members, fostering a culture of precision, efficiency, and innovative thinking.
- Delivered projects up to 15% under budget by optimising material selection and workflow efficiency.

Optical Fiber Maintenance Technician *Full-time* | 2015 – 2016

- Maintained critical communication infrastructure, ensuring system stability and uptime.
- Diagnosed and resolved technical issues under time-sensitive conditions.
- Applied methodical troubleshooting processes similar to debugging software systems.

Education

BSc in Architecture - Azad University

- Achieved 2.1 | Focus: Digital architecture workflows, AutoCAD & Revit.