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, clarifying existing codebases, and designing reliable, accessible applications that deliver lasting value to users.

Technical Skills

Languages & Frameworks: JavaScript (ES6+), React, Tailwind CSS, Node.js, Python, Java (currently learning).

Frontend: DOM manipulation, Responsive UI, Accessibility.

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 Fibre 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.