Pooriya Ketabi

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Software Engineer backed by seven years as a Senior Building Architect, bringing a systems perspective to software development. Now focused on backend development. Works in Java and JavaScript with object-oriented design, REST APIs, relational schema design in PostgreSQL, automated testing (JUnit, AssertJ) and Docker-based workflows. Comfortable working through ambiguity, using research and structured analysis to understand problems before translating them into practical, maintainable software. Previous experience leading complex projects contributes to disciplined decision-making, thoughtful collaboration and a focus on delivering solutions that work in real-world conditions.

Technical Skills

Languages: Java, JavaScript, Python.
Frontend: React, Tailwind CSS, Responsive UI.
Backend: Node.js, Express, REST API, JWT Authentication, WebSocket.
Database: PostgreSQL, MongoDB, Relational Schema Design.
Testing: JUnit, AssertJ, Jest, TDD, API Mocking.
Tools: Git, GitHub, Postman, Docker, CI/CD, Deployment.
Focus: Kafka, Neo4j. (Built small projects to experiment)

Projects

ThisAbility - EquiVerse | GitHub - Website - Live Demo
Stack: HTML, CSS, JavaScript, TfL API, GraphHopper API.
An accessibility-focused transport planning prototype exploring how personalised routing and real-time information can improve confidence and independence for people with disabilities.

- Conducted interviews, surveys, competitor analysis and desk research to identify accessibility barriers and define product requirements.
- Collaborated with a multidisciplinary team to prioritise features based on user needs, competitor insights and technical feasibility.
- Took ownership of designing and developing the interactive prototype and public project website, integrating transport and navigation APIs to demonstrate accessible journey planning.
- Presented the solution at Google London HQ as part of the Tech4Positive Futures programme.

Mentoro - Quiz App | GitHub - Live Demo
Stack: React, Tailwind CSS, Node.js, Express, PostgreSQL, WebSockets, Docker.
A real-time quiz platform for interactive learning, enabling mentors to create, manage, and host live quizzes while students join sessions, submit answers, and receive feedback instantly.

- Collaborated in a cross-functional Agile team of developers, tech leads, and product managers to deliver real-time quiz features through PR reviews, pair programming and sprint planning.
- Developed RESTful API endpoints for authentication, quiz management, session handling, and real-time scoring.
- Built a React interface for distinct mentor and student workflows, supporting clear role-based user journeys.
- Integrated WebSockets to enable near-instant question delivery, answer submission, and live feedback during quiz sessions.
- Designed and implemented a normalised PostgreSQL schema to manage users, quizzes, sessions, and submissions with maintainability in mind.

PiTranslate | GitHub - Live Demo
Stack: HTML, CSS, JavaScript, Node.js, Express, Firebase, OpenAI API, REST APIs.
An AI-powered language-learning app for translations, idioms, and personalised language practice.

• Integrated OpenAI API to generate translations, example sentences, synonyms, and idioms.
• Built engagement-focused features, including spaced repetition review and personalised progress tracking to support retention.
• Improved frontend rendering and backend API efficiency, contributing to a Lighthouse performance of 95+.
• Designed a responsive, accessible experience with persistent login and a low-friction guest mode.

Experiences

Business Analysis and Tech Consultant - Capgemini T4PF programme 2 Months | 2026

• Co-analysed accessibility barriers in a cross-functional team, conducting research and co-designing the business model and Lean Canvas for an assistive navigation platform (ThisAbility).
• Took ownership to architect and develop the official showcase website and interactive MVP prototype, translating complex accessibility requirements into functional web interfaces.
• Co-pitched the strategic product vision and functional MVP to senior judges at Google London.

Software Engineering Programme - CodeYourFuture Full-time | 2024 - Present

• Built full-stack applications with JavaScript, Node.js and React, applying clean code principles, testing, and Git-based workflows.
• Collaborated on team-based projects through regular code reviews, pair programming, and iterative delivery.
• Analysed and refactored legacy codebases to improve functionality, maintainability, and performance.
• Applied algorithmic thinking and optimisation techniques to identify bottlenecks and improve performance in existing codebases.

Senior Architect - SISI Engineers Group Full-time | 2016 - 2023

• Led multi-disciplinary teams to deliver large-scale commercial and residential projects from concept design to completion.
• Coordinated complex digital and construction workflows across stakeholders, timelines, and delivery constraints, using tools such as AutoCAD, Revit, and project management systems to improve collaboration.
• Designed and optimised complex building systems, applying structured problem-solving and systems thinking.
• Managed trade-offs between cost, performance, and sustainability, bringing decision-making experience directly transferable to software architecture and delivery.
• Mentored junior team members and maintained high standards of precision, efficiency and delivery.
• Delivered projects up to 15% under budget through more efficient planning and material selection.

Education

Software Developer Certificate - CodeYourFuture
- Focus: Full-stack development, teamwork, testing and delivery practices.

BSc in Architecture - Azad University
- Achieved 2.1 | Focus: Digital architecture workflows, AutoCAD & Revit.