

# NOOR UL AIN

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## Summary

Full-stack developer and AI engineer specializing in modern web technologies and AI-driven systems. Experienced in building scalable frontend and backend applications using React, Next.js, and Python. Strong focus on AI agents, RAG-based systems, computer vision, and API-driven architectures. Passionate about creating intelligent, user-centric products with clean UI/UX and production-ready code.

## Skills

Programming:	Python, JavaScript, TypeScript
AI & Agents:	Artificial Intelligence (AI), AI Agents, Prompt Engineering, OpenAI SDK, SpecKit
Computer Vision:	Computer Vision, OpenCV, MediaPipe
Frontend:	HTML5, CSS3, Tailwind CSS, React.js, Next.js
Backend:	FastAPI, REST API
Tools & Platforms:	Git, GitHub, Web Development

## Current Training

Governor's Initiative for Artificial Intelligence and Computing (GIAIC) — Studying agentic AI, OpenAI SDK framework, and mastering advanced AI-driven development.

## Education

BA, Karachi University

## Hackathons & Achievements

- Dynamic Resume Builder – GIAIC Hackathon, Sept 2024 Built a customizable resume builder with real-time editing using HTML5, CSS, and TypeScript.
- Responsive UI Multi-Page Sites – GIAIC Hackathon, Sept 2024 Developed fully responsive multi-page applications using React, Next.js, and Tailwind CSS.
- Dynamic Web Development API Integration – GIAIC Hackathon, Jan 2025 – Ongoing Built blog and e-commerce platforms with complete backend API integration.
- Next.js Design Jam – Dec 2024 Implemented pixel-perfect UIs from Figma designs within 24 hours.
- Marketplace Builder Hackathon – Jan 2025 Developed and deployed a production-ready online marketplace using full-stack technologies.

## Projects

- Full-Stack Todo Application Built a complete CRUD-based todo app with authentication, REST APIs, and responsive UI using React, Next.js, FastAPI, and NeonDB.
- RAG-Based AI Chatbot Developed a Retrieval-Augmented Generation chatbot using OpenAI SDK, vector databases, and FastAPI for context-aware responses.
- Documentation & Book Platform (React + Docusaurus) Created a structured documentation and learning book platform using React and Docusaurus with optimized navigation and content hierarchy.
- AI Employee (Digital FTE) Developed a local-first autonomous AI employee using reusable skills and agentic architecture. Enabled the system to plan, execute, and validate tasks independently with minimal human intervention. Built MCP-based servers for code execution, automation, and workflow orchestration. Integrated human-in-the-loop approvals for safety and iterative learning.
- Learning Platform Developed a scalable learning platform with courses, dashboards, and modular frontend architecture using React and Next.js.
- Responsive Web Projects Built animated and responsive websites using HTML, CSS, JavaScript, and GSAP.
- Python Applications (25+) Developed automation tools, CLI utilities, and resume generators.