Nawal Mudassar Ali

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Summary

AI Engineer and Full Stack Developer with experience building AI-powered web applications, workflow automation systems, and immersive 3D web experiences. Published IEEE researcher with expertise in React, Vue.js, Three.js, Next.js, AngularJS, Python, and modern AI technologies including LLMs, OpenAI APIs, prompt engineering, and AI automation. Passionate about developing scalable products that combine exceptional user experience with intelligent systems.

Education

International Islamic University Islamabad, BS in Computer Engineering — Aug 2022 – Present

- GPA: 3.8/4.0

Al-Huda International School Islamabad, A-levels Pre-Engineering — Aug 2020 – July 2022

- Grade: B B C

Experience

Full Stack Developer & Senior QA Executive, Smart Brains Technologies 2.0 – Islamabad — Feb 2026 – Present

QA Executive, Smart Brains Technologies 2.0 – Islamabad — Nov 2025 – Feb 2026

Three.js Developer, Qrypton – Bahria Town Civic Center — Dec 2026 – Feb 2026

QA Manager, Kareemiya Technologies & BPO – Rawalpindi — Aug 2025 – Oct 2025

Self Verification, Kareemiya Technologies & BPO – Rawalpindi — June 2025 – Aug 2025

Customer Sales Representative, Kareemiya Technologies & BPO – Rawalpindi — May 2025 – June 2025

Full Stack Developer, Teresol Pvt. Ltd. – Islāmābād, Pakistan — June 2025 – Aug 2025

UI/UX Designing, DevelopersHub Corporation© – Islāmābād, Pakistan — June 2025 – July 2025

Publications

TruthRay: Shedding Neural Light on Digital Disinformation Using Machine Learning — Oct 2025

Nawal Mudassar Ali, Muhammad Sajjad Khan, Muhammad Asad, Basheer Ahmed

IEEE Xplore

Projects

AstraCRM - AI-Inspired Enterprise CRM Dashboard

- Built a production-style enterprise CRM dashboard with reusable Angular components, drag-and-drop Kanban management, analytics dashboards, AI-inspired interfaces, and responsive layouts.
- Tools Used: Angular, TypeScript, Angular Material, SCSS, RxJS, ApexCharts

QAInsight – Quality Assurance Management Web Application

- Developed a full-stack web application for SmartBrains BPO to streamline quality assurance processes, enabling efficient management and tracking of QA data through an intuitive interface.
- Built and deployed the application using Firebase as the backend, with Vue.js for the frontend, ensuring responsive performance and seamless data synchronization.
- Tools Used: Vue.js, Firebase, HTML5, CSS3, Vercel

LaunchDeck - Startup Discovery Platform

- Developed a modern startup discovery platform inspired by Product Hunt and Vercel, featuring dynamic startup pages, founder profiles, category browsing, command palette navigation, and responsive UI.
- Tools Used: Next.js, React, TypeScript, Tailwind CSS, shadcn/ui, Framer Motion, Recharts

VOIDRUNNER - Endless 3D Space Flyer

- Created an original browser-based 3D endless runner featuring procedural environments, inertial spaceship controls, adaptive difficulty, and persistent high-score tracking.
- Tools Used: Three.js, WebGL, JavaScript, HTML5, CSS3, Magic Patterns

KineticCanvas - Immersive Creative Portfolio

- Designed and developed an immersive creative portfolio featuring real-time WebGL fluid simulations, procedural 3D graphics, interactive particle systems, and cinematic animations.
- Tools Used: Base44, Three.js, WebGL, JavaScript, HTML5, CSS3

Velio - Wear Bold Brand Identity

- Designed a complete fashion brand identity including a minimalist logo, typography system, premium packaging, and branded mockups focused on confidence and modern aesthetics.
- Tools Used: Adobe Illustrator, Adobe Photoshop, Branding, Logo Design, Packaging Design

Tynex - Think. Build. Scale.

- Created a conceptual SaaS brand identity with a scalable visual system, modern logo, color strategy, typography, and digital brand applications for technology products.
- Tools Used: Adobe Illustrator, Branding, Logo Design, Visual Identity, Color Strategy

Bamio - Bold Beans, Better Brews

- Developed a modern coffee brand identity featuring a clean logo system, packaging concepts, and cohesive visual assets designed for a premium café experience.
- Tools Used: Adobe Illustrator, Adobe Photoshop, Branding, Packaging Design, Logo Design

Transcripto - AI Audio Transcription Platform

- Built a production-ready full-stack AI transcription platform that converts audio into text using OpenAI Whisper, featuring drag-and-drop uploads, real-time processing, and a modern responsive interface.
- Tools Used: Vue.js, Python, Flask, OpenAI Whisper, REST API, JavaScript

GalaxAI – AI Conversational Chatbot

- Contributed as the Three.js developer for an AI conversational chatbot, integrating an interactive 3D model to enhance the application's visual experience.
- Implemented a particle-based transformation effect, converting the 3D model into dynamic particles to create a futuristic, robotic aesthetic and improve user engagement.
- Tools Used: Three.js, JavaScript, WebGL, GLSL Shaders, HTML5, CSS3

Car Sticker Customizer - Interactive 3D Placement Tool

- Developed an interactive 3D web application for a paid client project, allowing users to place and customize stickers on a 3D car model with real-time visualization and dynamic design options.
- Tools Used: Three.js, JavaScript, WebGL, 3D Modeling, HTML5, CSS3

Galax - 3D Orbiting Particle System

- Built a 3D orbiting particle system simulating galactic motion with layered blue hues and a glowing yellow core,

showcasing advanced particle animation and WebGL rendering techniques.

- Tools Used: Three.js, JavaScript, WebGL, HTML5, CSS3, Particle Systems

HNMS Web Application - Learning Management System Module

- Built the LMS module of HNMS at Teresol with a student dashboard, unique “Funky Layer” design, and XState-powered CRUD operations.
- Tools Used: Vue.js, XState, MySQL, HTML, CSS, UI/UX Design

Assistly - AI-Powered Customer Support Chatbot

- Built Assistly as an Upwork project, an AI-powered chatbot with a clean interface, fast semantic search, and Python/Gradio integration.
- Tools Used: Natural Language Processing, Python, Gradio, Scikit-Learn, Deep Learning

Loopin - Stay in the loop with the people who matter

- Designed Loopin during my UI/UX internship at DevelopersHub - a minimal social app with clean UI, user research, wireframes, and prototype presentation.
- Tools Used: Mobile Design, Figma, Prototyping, Wireframing, Auto Layout, UI/UX Design

RoboLeMans - An AI-Powered leap into autonomous racing

- Built RoboLeMans - a real-time AI & sensor-driven control system for a LEGO® Technic Le Mans car using vision gestures, ultrasonic sensing, and Raspberry Pi.
- Tools Used: Machine Learning, Raspberry Pi, Python 3, Object Detection, Servo Control

TruthRay - Shedding Neural Light on Digital Disinformation

- Developed TruthRay — a machine learning model for fake news detection using multi-class classification on the LIAR dataset, providing credibility ratings.
- Tools Used: Machine Learning, Natural Language Processing, Raspberry Pi, Scikit-Learn, Python

OfficeX - Simplifying workspaces with automation

- Developed OfficeX — an Arduino Uno based office automation system that simplifies workspaces through smart appliance control, Bluetooth connectivity, and environment monitoring.
- Tools Used: Embedded Systems Development, Arduino Programming, Arduino IDE, Proteus, Bluetooth

ArduTetris - Classic blocks, powered by Arduino magic

- Developed ArduTetris — a classic Tetris game on Arduino with OLED display, responsive controls, and real-time sound feedback, showcasing hardware-software integration and embedded system design.
- Tools Used: Embedded Systems, Arduino Programming, Game Development, OLED Display Control, Problem-Solving & Debuggin

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, SQL, C++

Frontend: React, Next.js, Vue.js, Vite, React Native, Three.js, Tailwind CSS, HTML5, CSS3, Framer Motion

Backend: Node.js, Express.js, Firebase, Supabase, MongoDB, MySQL, REST APIs

Artificial Intelligence: OpenAI API, Prompt Engineering, AI Agents, LLM Applications, Workflow Automation, LangChain, RAG Systems

Tools: Git, GitHub, Vercel, Docker, Figma, VS Code, Linux, Arduino IDE, Raspberry Pi OS, Cisco Packet Tracer