

Mohammad Khalid

Frontend Engineer | React, Next.js, TypeScript, Tailwind CSS, WebGL, web performance and SEO

London, UK | contact@iamkhalid.xyz | +44 746 315 4735

iamkhalid.xyz | github.com/iamkhalid2 | linkedin.com/in/mmdkhalid

Right to work in the UK until 30 June 2028

Summary

Frontend-focused software engineer (BSc Information Technology, 2024) who builds fast, well-tested React and Next.js sites with rich interaction. Built the Bustan Bakers website with CI-enforced performance budgets (178 KB gzipped JavaScript per route) and automated SEO checks, a scroll-driven three.js and GLSL portfolio, and an interactive in-browser course in Svelte 5. Uses AI coding agents such as Claude Code daily, with strict TypeScript, CI and automated tests as the safety net. Currently IT Support Specialist at S&P Global, London.

Technical Skills

- **Frontend:** React 19, Next.js (App Router), TypeScript, JavaScript (ES6+), Svelte 5, HTML5, CSS3, Tailwind CSS, Framer Motion, three.js, WebGL/GLSL, CSS scroll-driven animation, responsive design
- **Performance and SEO:** performance budgets, AVIF and responsive images, lazy loading, structured data (JSON-LD), Open Graph, sitemaps
- **Testing and delivery:** GitHub Actions CI/CD, Node.js test runner, ESLint, Vercel, GitHub Pages, Git
- **Backend and data:** Node.js, REST API routes, OAuth (GitHub), Firebase
- **AI and tools:** Claude Code, OpenAI API, Google Gemini API
- **Other languages:** Python, C (C99), Dart, Bash

Projects

Portfolio (iamkhalid.xyz) | Next.js 16, React 19, TypeScript, three.js, Framer Motion, Tailwind CSS | 2024 - Present

- Built a scroll-driven homepage as a single three.js WebGL2 renderer with raw GLSL shaders (lensed sky, accretion disk with Doppler and gravitational colour shifts, HDR bloom), keeping per-frame state outside React so components do not re-render each frame.
- Rendered the About portrait as about 28,000 particles sampled from a photo that stream out of the accretion disk and assemble on scroll.
- Added pinned scroll scenes, Lenis smooth scrolling, a custom cursor and a command palette, plus a git-backed CMS with GitHub OAuth.

Bustan Bakers website (bustanbakers.com) | Next.js, React, TypeScript, Tailwind CSS, WebGL | 2025 - Present

- Built and deployed a statically generated multi-page site on Vercel with scroll-driven CSS animation, a custom cursor, a handwritten-wordmark splash with a morphing page transition and a lazy-loaded WebGL hover shader.
- Set up a GitHub Actions pipeline that fails the build if any route exceeds 178 KB gzipped JavaScript or 900 KB transfer.
- Added automated per-route SEO checks (single canonical URL, parseable JSON-LD, prerendered Open Graph images, sitemap match) and an AVIF image pipeline with five responsive widths.

Invent a GPT course (iamkhalid2.github.io/microgpt-course) | Svelte 5, Vite, Python, Pyodide | 2026 - Present

- Built a 19-chapter interactive course in Svelte 5 and Vite where learners edit and run real Python in the browser through Pyodide, with interactive visual toys for each concept (12 GitHub stars).
- Deployed to GitHub Pages with GitHub Actions; the in-browser model is tested against Python reference outputs.

Also: Kiraya (Flutter, Firebase, 2025), a personal property management app, not published. Computer-Use (Python, Gemini Live API, 2025), a voice-controlled desktop agent (11 stars). WhatsAppGPT (Node.js, 2023), a WhatsApp chatbot on OpenAI and Gemini (17 stars, 15 forks).

Experience

IT Support Specialist | S&P Global, London, UK | 2026 - Present

- Provide technical support to employees at a global financial intelligence and data company, handling incidents and service requests in ServiceNow.
- Support and troubleshoot employee devices with Microsoft Intune.
- Support user accounts and access in Active Directory.

Education

BSc Information Technology | Graphic Era University, Dehradun, India | 2021 - 2024