

Justin Fung

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PROFILE

Frontend-leaning software engineer and Computer Science graduate focused on React, Next.js, TypeScript, AI-assisted web products, and API-backed interfaces. Built production Clinify features including a speech-enabled OSCE simulation bot and gamified SBA/SAQ practice and exam flows; shipped frontend systems for an 80k-user community and rebuilt admin tooling for ~500 admins.

EDUCATION

University of Leicester

Jul 2026

BSc (Hons) Computer Science – First Class Honours, 78.58%.

EXPERIENCE

Full-stack Engineer Intern – Clinify

Mar 2024 – Mar 2025

- Implemented a production OSCE AI simulation bot with text-to-speech and speech-to-text workflows for patient-scenario practice.
- Designed and implemented gamified user interfaces for the core question bank and AI-powered learning features.
- Led the closed beta program, translating user feedback into prioritised product requirements, and review dev roadmap for the CEO.
- Maintained internal tools that improved cross-functional alignment on implementation context, assets, and product decisions.

Frontend Engineer Volunteer – Damage Inc

Jan 2023 – Nov 2023

- Architected and built a React/TypeScript RPG-style crafting and REP economy interface for an 80k-user community platform.
- Designed and shipped a responsive React events page from Figma designs while maintaining cross-browser compatibility.
- Rebuilt a responsive Admin Control Panel from a legacy PHP system for ~500 admins managing recurring community workflows.
- Converted mobile-first Figma designs into reusable React/TypeScript UI structures with accessible interaction patterns across event, economy, and admin workflows.

Freelance Software Engineer / Consultant – Self-employed

Sep 2021 – Present

- Built a Telegram bot that aggregated and analysed sports-betting odds from multiple bookmakers to surface potential arbitrage opportunities.
- Designed and developed the responsive, user-friendly website for 5+ Clients, such as the [Piano Factory Woodlands](#).
- Developed handover documentation and delivered training to technical, non-technical end users, and administrators.

SELECTED PROJECTS

Portfolio Website | Astro, React, TypeScript, Tailwind CSS

Jun 2026

- Deployed an accessible and responsive portfolio on Cloudflare, achieving 100 Lighthouse scores with industry-standard patterns.
- Built command navigation, structured SEO/JSON-LD, crawlable project evidence, and a Playwright end-to-end test suite, strengthening discoverability, usability, and release confidence.

Microscopic Traffic Simulator | Rust, Parallel Computing, Systems Architecture

May 2026

- Engineered a CPU-parallel Rust simulation engine capable of modelling 100,000 vehicles in real time.
- Implemented lane changing, ramp metering, emissions modelling, OpenStreetMap imports, and repeatable CSV analytics.

UniSkill | TypeScript, API-backed Platform, Hackathon Artefact

Feb 2024

- Built the full frontend for a peer-to-peer skill-sharing and event-management web-app in a 48-hour Hackathon.
- Reached finalist status among 15 teams by shipping a demoable workflow.

EPQ Image Classifier (A*) | Python, TensorFlow, Keras, Artificial Intelligence

Mar 2022

- Engineered and fine-tuned an AI transfer-learning pipeline across around 70k images, delivering 100% test accuracy.
- Designed an end-to-end TensorFlow workflow covering augmentation, staged fine-tuning, learning-curve analysis, model persistence, and prediction review, earning an A* for the Extended Project Qualification (EPQ) artefact.

CERTIFICATIONS & COMPETITIONS

Claude 101 – Anthropic (Certificate)

Jul 2026

CIC Innovation Hackathon Finalist – IBM (UniSkill)

Feb 2024

SKILLS

Languages: TypeScript, JavaScript, Rust, Java, Python, SQL.

Frontend: React, Next.js, Astro, Vite, Chakra UI, Tailwind CSS, HTML, CSS, Accessibility, Responsive UI.

Backend/APIs: Node.js, NestJS, Express, Flask, Spring Boot, RESTful APIs, Authentication, Authorization, Security.

Testing: Unit testing, Integration testing, Jest, Vitest, Playwright, Code review, CI/CD.

Data/Systems: Postgres, Supabase, Prisma, Redis, Schema design, Query optimisation, Data structures, Algorithms, OOP, System design.

Cloud/Delivery: Git, GitHub, Linux, Docker, Deployment, Observability, Logging, AWS, Azure, GCP, DigitalOcean.

Spoken Languages: English and Chinese (fluent professional communication).