Tran Khoi Nguyen (Noah) Pham

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Education

University of Manchester

Graduating in Jun 2027

BSc. (Hons) Computer Science Manchester, United Kingdom

- Relevant Coursework: Software Engineering, Algorithms and Data Structures, Data Science, Operating System, Database Systems, Artificial Intelligence, Computer Engineering & Architecture, Discrete Mathematics.
- Activities: Student Representative, Google Developer Student Club, Robotics Society, Manchester Trading Society.

Experience

Software Developer Intern (Incoming)

Oct 2025 - Present

Ping Proxies

Manchester, United Kingdom

Digital Design Web Developer

Aug 2025 - Present

University of Manchester Students' Union

Manchester, United Kingdom

• Developed and deployed 20+ high-traffic web pages for the Students' Union platform, handling 150,000+ monthly page views and improving user engagement by 50% through intuitive UI/UX design and seamless navigation flows.

Full Stack Software Engineer

Dec 2024 - Oct 2025

SpeakWisely

Manchester. United Kinadom

- Led the end-to-end product lifecycle development of a full-stack AI-powered web application using Next.js, TypeScript, and Supabase, acquired and currently supporting 200+ active users for IELTS speaking practice.
- Architected a real-time multi-agent conversational AI, using a state machine and context engineering to orchestrate seamless handoffs between specialized agents for a dynamic, multi-stage test simulation.
- Engineered an automated analysis pipeline with a secure Supabase (PostgreSQL) backend, integrating Whisper API and LLM inference to deliver feedback in under 5 seconds while ensuring data privacy with Row Level Security.

Electronics and Software Engineer

Sep 2023 - Jun 2024

Hyperloop Manchester

Manchester, United Kingdom

• Optimised a multi-panel control GUI in C++ and Qt to visualise mission-critical data, integrating 5+ real-time streams including GPS, live video, and 3D heat maps to reduce system diagnostic time by an estimated 50%.

Projects

Race the Ages | Next. is, TypeScript, React, PartyKit, Tailwind CSS, Framer Motion

November 2024

• Developed a real-time multiplayer game using Next.js, TypeScript, and PartyKit, achieving game state synchronization with <100ms latency to deliver a fully functional prototype and winning 2nd Place Overall.

StudyMapper | Next.js, React, Typescript, MongoDB, Mapbox GL

- Developed a full-stack interactive mapping application with Next.js, React, TypeScript, MongoDB and Mapbox GL to visualise real-time study space availability, attracting over 500 monthly active users.
- Architected a server-less back-end using Next.js API routes and MongoDB to serve geo-spatial data and power a proximity and amenity filtering, slashing student search time by an estimated 90%.

LeetCoach | Next. is, TypeScript, Python, Docker, Tailwind CSS

April 2024

- Built a full-stack AI coaching platform with a Next.js front-end and a secure Python/Docker back-end to deliver real-time, AI-driven feedback from the Gemini API within a sandboxed execution environment.
- Integrated a low latency voice-driven interface by orchestrating a real-time transcription API and the Neuphonic **API** for text-to-speech, creating a 100% hands-free user experience to improve accessibility for auditory learners.

Omni | Next.js, React, TypeScript, Polkadot, AI, Hardhat, Solidity

May 2025

- Engineered an AI-powered DeFi strategy engine with Next.js, implementing Monte Carlo simulations to generate personalised, risk-adjusted portfolios and reducing user research time.
- Architected a full-stack dApp on the Polkadot network, deploying Solidity smart contracts via Hardhat and integrating the Polkadot API to create a secure workflow from wallet connection to on-chain transaction signing.

Technical Skills

Languages: Python, TypeScript, JavaScript, Java, C++, SQL, Swift, HTML/CSS, Verilog, Assembly, C.

Frameworks & Libraries:: Next.js, React.js, Node.js, Tailwind CSS, Framer Motion, Qt, PartyKit.

Database and BaaS: PostgreSQL, Supabase, MongoDB, MySQL, NoSQL, SQLite, Firebase.

Developer Tools & Platforms: Docker, Git, GitHub, GitLab, Vercel, Linux, Windows, CI/CD, Agile, Scrum, LATEX.