Ashmit Khadka
Software Engineer

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Skills

Languages: JavaScript, TypeScript, C#, Python, SQL, HTML, CSS, Java, PowerShell

Frameworks: React, Node, ASP.NET Core, Express, Django, React Native, SASS, Redux, Next, GraphQL, D3, Tailwind

Cloud / DevOps: Azure, AWS, Docker, Jenkins, Splunk, Nginx

Databases: SQL, MongoDB

Testing: Jest, React Testing Library, Playwright, Selenium, Cypress, Cucumber

Other: Git, Figma, WCAG, Lunix, Jira, Postman, Webpack, Google Analytics

Education

MSc, Advanced Software Engineering - King's College London, 2024, Merit

BSc, Computing Science (with a Year in Industry) - University of East Anglia, 2021, First Class Honours

Certifications

UX Design - Google, Coursera, 2021

JavaScript: The Advanced Concepts - Mosh Hamedani, Udemy, 2022

Mastering TypeScript - 2023 Edition - Zero to Mastery, Udemy, 2023

C# Advanced Topics - Colt Steele, Udemy, 2022

Awards

Company Hackathon Winner - ADP, 2024

Top 50 Best HR Products - G2, (2021-2024)

Gold Winner for Mobile Web & App of the Year - The American Business Awards, 2024

Gold Winner for Mobile Site Design - COMM, 2023

Bebras Challenge - 1st of 200 students - Raspberry Pi foundation, 2016

Profile

Product driven software engineer with half a decade experience at ADP, a leading S&P 500 tech company, building and scaling React, .NET Core web apps used by over 1 million clients. I work on RUN, an award winning payroll platform with a 4.9 rating on the App Store and Google Play. King's College London master's graduate in Software Engineering with a First Class Honours in Computer Science. Driven by clean, scalable code and a deep interest in emerging tech and AI. Thrives in collaborative teams and embraces complex challenges with a hands-on, solutions-first mindset. Recent company hackathon winner for 2024.

Work Experience

Software Engineer - ADP (Automatic Data Processing)
September 2021 - Present

- Hackathon 2024 winner for developing a web application that tracks code deployments across multiple environments, improving visibility and release traceability.
- Delivered over 500+ features and production bug fixes across the full stack using *React*, *TypeScript*, *Node.js*, *C#*.
- Performed 300+ code reviews, promoted architectural standards, and best practices.
- Mentored 3 graduate engineers through deep dives, shadowing sessions, and pair programming.
- Collaborate cross-functionally with UX designers to build responsive, accessible web apps using *React* and *Figma*. Engineered modular, reusable UI components with *React* and *Tailwind*.
- Designed and optimized 30+ mission critical *RESTful* APIs using *Node.js*, *Express*, *MongoDB* and *C#*, implementing robust error handling, logging and performance tuning.
- Authored and optimized stored procedures and queries using *SQL* and *MongoDB*, supporting data heavy features at scale.
- Built 1,000+ unit and integration tests using *React Testing Library* and *Jest*.
- Developed 100+ end-to-end UI test suites with *Cypress*, *Selenium*, and *Cucumber*, automating complex user journeys and release validation.

Associate Software Engineer - ADP (Automatic Data Processing)
July 2019 - June 2020 (Internship)

- Developed responsive, high performance client-facing user experience using *React*, *Node.js*, and *TypeScript*.
- Automated data mining of production usage patterns using *Python* to generate realistic *LoadRunner* performance test profiles and error reporting with *Grafana*.
- Integrated *Google Tag Manager* to capture key user interactions and built end-to-end *Google Analytics* reporting pipelines helping enable better data-driven UX and product decisions.

Head of IT - Peterborough Nepalese Samaj (PNSUK)
April 2017 - Present

- Collaborate with community stakeholders to build and enhance the charity website PNSUK.org, using *React*, *Python*, *Django* and *SQL*
- Lead IT education workshops for both adults and children, fostering digital literacy and empowering the community with essential tech skills.

Projects

AI Sustainability Platform, *Master's thesis (awarded Distinction)* - Social platform targeting higher education with *AI* generated sustainability challenges, chatbots, and content moderation. Built using the *MERN* stack + *GraphQL*

DNA Visualisation Tool, *Bachelor's thesis (awarded First Class Honours)* - Partnered with The Sainsbury Laboratory to build an interactive web app for visualising protein interactions in plant pathogens. Powered by *D3* and the *MERN* stack.

GeekCaffeine.com: One Hub for All Things Tech, - Curated a tech content hub with custom web scrapers and AI powered trend analytics using *Python*, *TypeScript* and the *MERN* stack.

PNSUK.com: Empowering the Nepali Community, - Designed and developed the official site for a UK-based Nepali charity that empowers the local Nepali community. Built using *React* and powered by *Python* and *Django*.