Joseph Harwood

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Experience

DevJoe • Freelance Software Engineer • Amsterdam, NL • October 2025 - Present

- Deliver full-stack web development services with a focus on scalable, performant applications.
- Develop reusable React/Next.js component libraries and Node.js backends tailored for rapid prototyping and production.
- Consult on test automation strategies using Jest to ensure reliability and maintainability.
- Implement AI-powered integrations to improve user experience and automate business workflows.
- **Tools:** TypeScript, ReactJS, NextJS, NodeJs, Jest

Booking.com • Software Engineer II • Amsterdam, NL • May 2022 - October 2025

- Launched Booking.com's first AI Trip Planner, integrated with ChatGPT's API to provide users with more tailored and relevant travel recommendations, read more [here](#).
- Implemented no-code accommodation recommendations carousels improving time to market from 2 weeks to 2 days for marketing purposes.
- Led the ideation and implementation of a neighbourhood feature on the search results page, leading to a €19.7M per year increase in customer equity.
- **Tools:** TypeScript, ReactJS, NextJS, NodeJs, Jest, Celnium, Java, Perl, Kubernetes

Appical • Software Engineer I • Amsterdam, NL • November 2021 - May 2022

- Led the migration from JSP to React.js and TypeScript for a flagship product, leading to a 200% improvement in feature implementation time.
- Developed OpenId connect authentication flow that improved the security and efficiency of JWT token encryption.
- **Tools:** TypeScript, ReactJS, NodeJS, TailwindCSS, Jest

IBM • Software Engineer Intern • London, UK • July 2019 - September 2021

- Led the implementation of a platform to improve the efficiency of performance reviews, currently being used by all early career personnel at IBM UK with more than 5K active users.
- Conducted the modernization of a flagship page in IBM Netcool Operations Insight. Converted WebGUI UI to React, implemented E2E and Unit testing of components.
- **Tools**: TypeScript, ReactJS, NodeJS, Java, Python

Education

Manchester Met University • Bachelor of Science, Software Engineering • Manchester, UK • June 2021

- The course covered algorithms, web development, mobile development, and database management.