

# Aayush A. Raina

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## Summary

Software Engineer and HCI graduate blending 3+ years of technical expertise with deep user-centered design principles. Experienced in delivering customer-facing features using component-based architecture and state management in Agile teams, combining strong engineering skills with a passion for creating intuitive user experiences.

## Area of Expertise

Javascript, ES6+ - React - DOM Manipulation - State Management - Agile Development - Build Tools - Cross-Functional Team Collaboration - API Integration - Data-Driven Feature Implementation

## Education

Sept. 2024- Sept. 2025    MSc in Human-Computer Interaction | University of Birmingham, Birmingham, UK  
Aug. 2017- Aug. 2021    Bachelor of Technology in Computer Science | GGSIPU, Delhi, India

## Work Experience

**Digital Specialist Engineer | Infosys Ltd., India** Sept. 2021 - Aug. 2024

- Delivered features in React, TypeScript, and Redux Toolkit within Agile framework, implementing data-driven UI improvements from client feedback and usage analytics
- Led web performance optimization by 95%, from 10s to 500ms via DOM manipulation, state management, and responsive design, boosting user experience
- Built production-ready React components through cross-functional collaboration with business analysts, cloud engineers and QA engineers, meeting WCAG accessibility standards
- Wrote clean, testable code with comprehensive unit and integration tests using Jest and React Testing Library, ensuring feature reliability
- Accelerated sprint delivery by 12.5% through commercially-savvy process improvements and data-driven bottleneck identification
- Integrated frontend with backend APIs, ensuring continuous feature deployment using Git-based workflows and modern build tools

## Projects

- [StayOnTrack](#), MSc Dissertation: AI-powered multi-agent productivity web app with, Next.js frontend, NestJS backend, Ollama for local AI inference and Firebase firestore for real-time tracking
- [ATSReady](#): Next.js 15 application to check ATS compatibility in CVs and provide feedback, integrating Google Gemini AI API with client-side file processing and deployment to Vercel
- Easi: A stress management ecosystem PoC for group project evaluation, through user research and Figma prototyping, creating an integrated solution including an app, figurine and smartwatch for Multiple Sclerosis patients.

## Skills

Frontend:	React, Redux, Next.js, TypeScript, JavaScript, DOM Manipulation, HTML, CSS, Zustand
Testing & Quality:	Jest, React Testing Library, ESLint, Prettier, Swagger
Backend & APIs:	Node.js, Express, NestJS, RESTful APIs, Microservices
Tools & Platforms:	Git, GitHub, Webpack, Jira, Postman, Docker, CI/CD, GCP, Firebase, PostgreSQL, MongoDB
Practices:	Agile/Scrum, Sprint Planning, Accessibility (WCAG), User Research, Design Thinking, Collaboration

## Awards & Volunteering

- Recognized with [The Birmingham Award](#) and [Postgraduate Professional Development Award](#) for engagement in employability and personal development activities during postgraduate studies.
- Led a team as Project Manager in a 3-week interdisciplinary programme called [Master's Consultancy Challenge](#), delivering a strategic digital campus mobility solution for Turner & Townsend.
- Received a Certificate of Appreciation at Infosys for exceptional contributions and positive impact on team success and project outcomes.