

# Deepak David Joseph Periyayagam, Lead UI Engineer

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## LINKS

[LinkedIn](#), [Github](#), [Website](#)

## PROFILE

Dynamic Lead UI Engineer and Web Architect with over 11 years of experience in the BFSI sector, specializing in building scalable and secure web applications. Expertise in React, Next.js, and TypeScript drives the creation of high-performance solutions that adhere to WCAG 2.2 AA standards. Proven ability to enhance development workflows through CI/CD practices using Docker and Kubernetes, while implementing innovative design systems and micro-frontend architecture. Committed to elevating code quality and performance through rigorous testing and observability frameworks, while actively mentoring teams to foster growth and modernization within technology stacks.

## EMPLOYMENT HISTORY

Mar 2024 — Present	Lead UI Engineer, JP Morgan Chase	Glasgow, UK
<b>Compliance Central Dashboard</b>		
<i>Monorepo, Yarn Workspaces, React, TypeScript, Vite, Storybook, Axe, Turborepo, Vitest, RTL, Cypress, Docker, Kubernetes, Google Analytics, SonarQube, Jira, REST API Gateway, Dynatrace, Teams</i>		
<ul style="list-style-type: none"><li>Built a scalable portal hosting multiple compliance apps and dashboards which streamlines task management and automated monitoring for compliance officers. Cut end-user effort by <b>80%</b> via guided workflows and cleaner UX.</li><li>Added end-to-end auditability (immutable event logs, trace IDs, Dynatrace) to satisfy audit and speed investigations.</li><li>Integrated <b>Web Speech API</b> for voice-to-text; raised user satisfaction by <b>50%</b> (internal survey).</li><li>Standardized a11y checks (<b>WCAG 2.2 AA</b>), linting, and Storybook docs; eliminated duplicate code and circular dependencies.</li><li>Improved performance with <b>code splitting, lazy loading</b> and prefetch.</li><li>Enforced <b>performance</b> testing with Lighthouse and bundle analysis to block regressions pre-merge.</li><li>Raised release confidence with Vitest/RTL + Cypress and <b>Turborepo caching</b>; reduced time-to-production from <b>60 min → 20 min</b>, including security and <b>Sonar</b> scans.</li><li>Instrumented Google Analytics to get usage insights/ user engagement.</li><li>Deployed on <b>Kubernetes</b> with environment-aware configurations and health checks for safe rollouts.</li></ul>		
<b>Compliance Component Library</b>		
<i>React, TypeScript, Storybook, Vite/Rollup, Vitest; Jira, Confluence</i>		
<ul style="list-style-type: none"><li>Created a reusable component library adhering to a11y patterns.</li><li>Enabled <b>tree shaking</b> to minimize shipped JS.</li><li>Reduced duplication and time-to-first-feature across multiple teams.</li></ul>		
<b>Compliance Widgets (Microfrontends)</b>		
<i>Vite Module Federation, React, TypeScript, Vitest, Storybook; Jira</i>		
<ul style="list-style-type: none"><li>Delivered embeddable, federated widgets for dashboards.</li><li>Enabled incremental adoption and <b>independent deployments</b>.</li></ul>		
<b>AI Enablement</b>		
<i>Prompt engineering, context engineering, Shot Prompting</i>		
<ul style="list-style-type: none"><li>Introduced AI-assisted code and test generation.</li><li>Halved developer effort and improved PR lead time on critical paths.</li></ul>		
<b>Compliance Ecosystem (Director View)</b>		
<i>React, TypeScript, Next.js, React Flow, Framer Motion; Jira</i>		
<ul style="list-style-type: none"><li>Built an interactive map of systems, data flows, dependencies, and accountable owners.</li><li>De-risked program decisions and accelerated cross-portfolio planning.</li></ul>		
<b>ARMigrator (Hackathon Lead)</b>		
<i>TypeScript, Claude Sonnet 4, curated KB; Jira, Confluence</i>		
<ul style="list-style-type: none"><li>Led a winning prototype for <b>Angular → React</b> migrations.</li></ul>		

Nov 2022 — Mar 2024

Assistant Vice President, Barclays

Glasgow, UK

### Developer Knowledge Hub

*React, TypeScript, Docusaurus, Vite, Jest; Jira, Confluence, Teams*

- Built a high-performance site consolidating install guides, runbooks, and tooling standards.
- Reduced Confluence sprawl; improved searchability and productivity.
- Enabled timely deprecation of legacy toolchains to curb license/support costs.

### IP Lens (Internal iOS App)

*React Native, TypeScript, Tailwind, Maestro (E2E); Jira, Slack*

- Shipped a mobile app surfacing employee product ideas across regions.
- Improved idea discovery and triage; increased stakeholder visibility and decision throughput.
- Captured in-app feedback to guide backlog and refine UX flows.

Mar 2017 — Oct 2022

Senior Associate, JP Morgan Chase

Glasgow, UK

### Asset Servicing Platform

*React, TypeScript, Redux, Jest, React Testing Library, Cypress; REST microservices; Jira, Confluence, Teams*

- Built a high-throughput, post-trade dashboard for asset lifecycle management.
- Integrated REST microservices to surface client-critical events and SLA status.
- Raised quality with layered unit/integration/E2E tests and a shared component library, reducing UI defects and increasing release cadence for regulated workflows.

### Software Engineering Efficiency

*React, Redux, Highcharts, WebSockets; Jest, RTL; Cloud Foundry, Jenkins; Jira, Confluence, Teams*

- Delivered fast UIs over **WebSocket** streams; tuned rendering/memoization for data-dense charts.
- Strengthened quality gates with Jest + RTL; achieved ~85% coverage and improved release confidence.
- Standardized an internal React toolkit with a11y checks, linting, and Storybook docs; removed duplicate UI code.
- Operationalized **CI/CD to Cloud Foundry** via Git webhooks and reusable **Jenkins pattern builds**; enabled blue-green deploys, shortened pipelines, increased deploy frequency, and cut change-failure rate by ~90%.
- Improved real-time reliability with pressure handling and reconnect strategies.
- Led and mentored a four-engineer squad with onboarding guides, architecture walkthroughs, and pair-programming.

### PHEME — Tooling Intelligence & Compliance App

*React, JavaScript; Spring Boot, REST, Oracle SQL; Jira, Confluence*

- Built a platform aggregating **employee survey data** to map team tool stacks.
- Automatically flagged outdated or non-standard tooling against strategic standards.
- Produced reports for DevEx/Security to run deprecation waves, drive compliance, and reduce license/support spend.

Sep 2015 — Feb 2017

Associate, JP Morgan Chase

Glasgow, UK

### Workflow Automation — Margin Calls

*Spring Boot, AngularJS, Java, Hibernate, REST; JUnit, Cucumber, CI; Jira*

- Built a workflow automation platform for margin-call processing.
- Designed resilient REST services on a Hibernate-backed RDBMS; optimized queries and caching to lower latency and scale reliably.
- Implemented **BDD** quality gates (JUnit, Cucumber) with CI checks; reached ~80% coverage and materially reduced regressions.

Jun 2010 — Sep 2012

Systems engineer, Infosys Limited

Chennai, India

### Replication Monitoring

*Java, Shell, Perl, HTML5, CSS3; Jira*

- Built a real-time replication monitoring tool with live dashboards for lag, throughput, and health.
- Implemented proactive alerting with severity routing and deduplication to cut noise and speed response.

- Added self-healing runbooks and remediation scripts (restart, resync, failover checks) to automate common fixes.
- Instrumented custom metrics, logs, and trace IDs to isolate hotspots and improve data freshness and stability.

### Asset Management Automation

*C#, ASP.NET; Digital Asset Management; Confluence*

- Automated end-to-end migration of digital assets from a legacy repository to a modern DAM.
- Included metadata mapping, integrity checks, safe rollback, and reconciliation reports.
- Built scalable ingestion pipelines with batching and resumable transfers to process large libraries reliably.

## EDUCATION

Sep 2012 — Sep 2013	Master of Science in Microelectronics System Design, University of Southampton	Southampton, UK
	Graduated with Distinction	
Jun 2006 — Jun 2010	Bachelor of Engineering in Electronics and Communication, Karunya University	Coimbatore, India
	Graduated with Distinction	

SKILLS	React	Expert	Accessibility	Expert
	NextJS	Expert	Axe	Expert
	Typescript	Expert	Monorepo	Expert
	Storybook	Expert	NPM	Expert
	Vite	Expert	Yarn	Expert
	Vitest	Expert	Turborepo	Expert
	Jest	Expert	Javascript	Expert
	React Testing library	Expert	Docker	Expert
	HTML5	Expert	Kubernetes	Expert
	CSS3	Expert	Rollup	Expert
	REST	Skillful	React Flow	Expert
	Websockets	Expert	TanStack React Query	Expert
	Prompt Engineering	Expert	Tailwind CSS	Expert
	Context Engineering	Expert	Storybook visual testing	Expert
	Cypress	Expert		

LANGUAGES	English	Highly proficient	Tamil	Native speaker
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