

# Rajat Malik

## Lead Software Engineer

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## Skills

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**Frontend Technologies:** React, Angular, JavaScript (ES6+), TypeScript, HTML5, CSS3, SASS/LESS, Redux, Ngrx, Micro-front-end, NX.

**Testing Frameworks:** Jest, Jasmine, Karma.

**Cloud & DevOps:** AWS, S3, Cognito, Docker, CICD, Git, Cloud Front, Webpack, Jira, Gitlab.

**UI Library:** Material-UI, Bootstrap, PrimeNG, Chart.js, Plotly, Google map, Husky, Lint-staged, Angular Material, ngx-translate, dexie, gauge-chart, rm-ng-device-detection.

**Tools & Methodologies:** Agile/Scrum, JIRA, Confluence, Code Review, Performance Optimization.

## Work Experience

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### Siemens, Gurugram

July 2021 - Present

#### Lead Software Engineer

- Spearheaded the **migration** of Angular legacy codebases to modern Angular and React, resulting in up to **40% improvement** in performance and developer productivity and scalability.
- Drove end-to-end architecture and implementation of scalable micro-frontend systems, enabling parallel development, faster releases, and a **60% reduction** in regression bugs.
- Optimized application performance from **20 to 97** Lighthouse scores through code splitting and lazy loading.
- Improved Core **Web Vitals** (LCP, FID, CLS) by **80%**, resulting in an improved user experience.
- Reduced runtime performance bottlenecks by 48% via proactive memory leak resolution and deep performance profiling.
- Achieved **90% unit test coverage** using the Jest framework and implemented an automated testing pipeline for early feedback.
- Achieved a **63% reduction** in release-time **bugs** by enhancing the robustness of the testing approach..
- Led cross-functional teams to design and implement micro-frontend architectures that **reduced deployment overhead** and enabled independent **module releases**.
- **Key Achievement:** Sensformer won NASSCOM Technology Excellence Award in IoT.
- *Technologies:* Micro-front-end, AWS, S3, Docker, Angular, Jest, TypeScript, HTML5, SASS, Ngrx, Plotly, Google Map.

### HCL Technologies, Noida

June 2016 - June 2021

#### Senior Lead Engineer

- Championed component-driven development and **reusable** design systems, cutting UI development time by **50%** across projects.
- Implemented advanced **state management** solutions Redux and reactive programming to enhance responsiveness and UX **consistency**.
- Collaborated directly with product and UX teams, translating complex **business requirements into seamless user experiences**.
- The project had tight deadlines, making it both challenging and rewarding, with a steep learning curve I embraced..
- *Technologies:* React, Redux, HTML, CSS, GIT, Confluence, Jira, Node, Agile, Jasmine, Bootstrap, NPM.

### ALLCAD, Jaipur

May 2015 - Jun 2016

#### Senior Software Engineer

- Owned development of the scanned DM module, enabling users to upload scanned documents via URL or image uploads.
- Proactively mentored junior developers and conducted regular code reviews, contributing to a **30% improvement** in overall code quality and team velocity.

- Integrated **accessibility** (WCAG 2.1), **internationalization** (i18n), and performance best practices into UI code, ensuring inclusive and global-ready applications.
- *Technologies:* AngularJS, HTML, CSS, GIT, jasmine, Karma, Node.

## Education

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### Bachelor of Technology

B.Tech. in Computer Science and Engineering, AIT Ajmer, 2007-2012

## Key Projects & Highlights

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- **Sensformer (Siemens):** Smart dashboard for monitoring electrical assets using IoT and AWS. *Technologies:* Angular, HTML5, CSS3, TypeScript.
- **TES2 Royal Mail:** Enabled barcode tracking, map-based delivery proof & file downloads. *Technologies:* Angular, HTML5, CSS3, TypeScript.
- **AT&T Cart Integration:** Merged wireless & wireline carts, improving checkout UX and conversions. *Technologies:* Angular, HTML5, CSS3, JavaScript.

## Open Source & Writing Contributions

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- **NPM Contribution:** Created 10+ Angular/React libraries published on npm and GitHub.
- **Authored:** 50+ articles on frontend architecture, performance, and developer productivity.

## Awards

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- **Star Award – Siemens (2021):** Honored for leading the end-to-end implementation of a microfront-end architecture setup, from proof-of-concept to successful production deployment. Took full ownership of designing, developing, and integrating multiple independently deployable Angular microfrontends, enabling scalable development and faster release cycles across cross-functional teams.
- **Lead Helping Hand – HCL (2019):** Recognized for mentoring and leading both new and existing team members, while consistently going above and beyond to foster cross-functional collaboration and effective communication — resulting in smoother onboarding and enhanced overall team performance.
- **Above & Beyond – HCL (2017):** Awarded for taking initiative beyond the defined role, successfully leading the delivery of critical modules on tight deadlines and earning the appreciation of the client.

## Certificates

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|-----------|---------------------|----------------------|------------------|--------------|
| • React   | • JS Essentials     | • Git & GitHub       | • JS Prototyping | • Cake PHP   |
| • Angular | • Wired Parts of JS | • JS Design Patterns | • OOJS           | • Express.js |

## Interests

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| • Micro Frontend Architecture.   | • UI/UX Design Trends.         | • Open Source Contribution.             |
| • Web Performance Optimization.  | • Mentoring Junior Developers. | • Learning New Tech.                    |
| • Frontend Testing & Automation. | • Article Writing.             | • Design Systems & Component Libraries. |