

# Hritwik Agarwal

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[Github](#) | [Leetcode](#) | [LinkedIn](#) | [Portfolio \(α-phase\)](#)

Software Engineer with 4+ years of experience in UI and full-stack development using the MERN stack. Skilled in building responsive frontends with React and Next.js, and scalable backends with Node.js SQL, and MongoDB. Passionate about leveraging AWS for scalable and cost-efficient cloud solutions. Seeking to apply full-stack and cloud expertise to build impactful applications.

## EXPERIENCE

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### UI Developer | Barclays Bank Plc | Pune, India (Oct 2022 – Present)

- **Core Feature Revamp:** Redesigned the **Cards and Loans Management** system, **enhancing user experience (UX)** for customers managing arrears accounts.
- **Performance Optimization:** Improved **LCP (Largest Contentful Paint)** and **FCP (First Contentful Paint)** by 30% using **React, Storybook, and Zustand**, deployed on **AWS ECS**, serving **112,000+ customers** with **€26.9M+ in cumulative payments**.
- **Agile Delivery:** Reduced sprint cycles by **25%** while ensuring **high reliability, scalability, and maintainability** in a **microservices architecture**.
- **Test Automation:** Increased **test coverage to 80%+ (backend)** using **JUnit & Mockito** and **90%+ (UI)** with **Jest & Karma**, improving **software quality and CI/CD pipelines**.
- **Headless CMS Migration:** Converted **Adobe AEM**-managed content into **reusable React Native components**, **reducing rendering overhead** and **improving code maintainance**.
- **Automated Reporting:** **Built a Jenkins & Node.js** pipeline for **API analytics**, replacing manual reporting with dynamic headless **Chart.js** visualizations of API performance metrics.

### Full Stack Engineer (MERN) | Techmonk Ecom Solutions | Mumbai, India (May 2022 – Oct 2022)

- **Built a No-Code CRM with Next.js, and Node.js**, enabling drag-and-drop builders (pipelines, reports), **cutting manual effort by 60%** integrated with **AWS Comprehend** for **sentiment analysis**, improving review credibility on product review pages.
- **Strategically optimized AWS cloud infrastructure by migrating to a serverless architecture using Lambda, API Gateway, and Redis**, significantly reducing compute costs and scaling overhead. Fine-tuned IAM roles and policies to adhere to the **principle of least privilege, enhancing security** while cutting down on unnecessary resource provisioning — **resulting in a 20% reduction (from 12K to 9.6k)** in overall operational expenses.
- **Architected a fully custom drag-and-drop form builder** using native **JavaScript and ReactJs**, avoiding reliance on third-party libraries. Integrated seamlessly with AWS services such as **S3 (for storage), Lambda (for processing), API Gateway (for endpoints), and DynamoDB (for schema-less form data persistence)**. Enabled dynamic form creation and submission workflows **entirely on a serverless stack — delivering performance, scalability, and full control over form behavior and structure**.
- **Managed bi-weekly feature releases in a fast-paced agile environment**, ensuring secure IAM policies and seamless deployments across multiple environments using AWS services. **Leveraged CodePipeline and CodeDeploy** for CI/CD automation, **Amplify** for frontend hosting, and **Route 53** for custom domain management and DNS routing.

### Software Engineer | Capgemini | Navi Mumbai, India (Dec 2020 – May 2022)

- **Power Portal Development:** Created an **agricultural data management portal** using **Vanilla JS, HTML, CSS**, and **Power Automate flows** to streamline and automate post-submission processing tasks, enhancing data handling efficiency and user experience.
- **Productivity App:** Developed a **Pomodoro-based React app** to enhance employee **focus and work-rest balance** and providing continuous support through an intuitive user interface.
- **Dynamics 365 Automation:** Built a **Node.js Azure Function with React.js UI** for **Excel-to-Dynamics 365** data migration, reducing **manual errors by 40%**. This tool enabled seamless Excel file uploads, intelligent entity mapping, and data injection into the Dynamics 365 Dataverse.

## Education

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**Bachelor of Technology - Computer Science | Jaipur Rajasthan**  
**Jaipur Engineering College and Research Centre University | CGPA-8.75 | 2016-2020**

## Technical Skills

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**Programming Languages:** JavaScript (ES6+), TypeScript, Java  
**Frontend:** React.js, Next.js, Three.js, Tailwind CSS, Storybook, Responsive Web Design  
**Backend:** Node.js, REST APIs, Microservices, Serverless Architecture  
**Cloud & DevOps:** AWS (Lambda, EC2, S3, API Gateway, CloudWatch), CI/CD (Jenkins, CodeDeploy), Docker  
**Testing:** Jest, Karma, JUnit, Karate (API Testing), Mockito  
**Databases:** SQL (Microsoft SQL Server), NoSQL (MongoDB, DynamoDB)  
**Other:** Agile/Scrum, Git, OAuth, JWT

## Certifications

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**AWS Developer Associate (DVA-C02) | AWS SAA (SAA-C03) | AZ-900**

## Soft Skills

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**Problem-Solving | Cross-functional Collaboration | Client Communication**  
**Languages:** English (Professional), Hindi (Native), Japanese (Conversational)