

# Payal Mangesh Mehta

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## Education

North Carolina State University, Raleigh, NC  
*Master's of Computer Science*

Aug 2023 - May 2025  
GPA: 3.5

MKSSS Cummins College of Engineering, Pune, India  
*Bachelor of Computer Engineering*

Aug 2018 - May 2022  
GPA: 8.76

## Work History

### SupplyPoint

#### Software Developer

Durham, USA  
May 2025 - Present

- Built and deployed full-stack features using React, TypeScript, Node.js, SQL, and AWS services to support internal configuration workflows, improving feature delivery speed by 35%.
- Developed scalable microservices and API integrations with Spring Boot style service patterns, GraphQL APIs, and Kafka data flows to stabilize system behavior, lowering recurring defects by 28%.
- Improved system observability and performance by instrumenting logs, optimizing API latency, and collaborating with cross-functional teams in Agile sprints, reducing blocker turnaround time by 20%.

### Web Design Intern

Aug 2024 - May 2025

- Developed responsive, mobile-first UI components using HTML, CSS, JavaScript, and TypeScript within CMS based workflows to translate design concepts into functional web elements, improving layout accuracy by 30%.
- Collaborated with Web Designers and UX/UI Designers using Figma and Adobe Creative Cloud to ensure design accuracy, usability, and consistency with brand standards and style guides, increasing review cycle efficiency by 25%.
- Improved front-end performance and accessibility by applying WCAG guidelines, SEO best practices, cross-browser fixes, and SASS styling updates, reducing usability issues and interaction defects by 22%.

### North Carolina State University

#### HCI Research Assistant

Raleigh, NC, USA  
May 2024 - Aug 2024

- Delivered distributed medical data prototypes using Python, REST endpoints, PostgreSQL schemas, and UX research validation to confirm data usability for early analytics workflows, improving retrieval accuracy by 18%.
- Collaborated with product leads, designers, and research partners to run UX studies, A/B tests, and explainability reviews on medical data prototypes, generating insights that shaped dataflows and reduced research setup time by 40%.

### Citibank

#### Software Engineer

Pune, India  
Jul 2022 - Jul 2023

- Rebuilt full-stack web services using Java, REST APIs, SQL, and Linux systems, reducing onboarding defects by 40% and supporting reliable data handling for high-volume transactions.
- Strengthened system reliability by instrumenting service telemetry, log tracing, and performance dashboards for large-scale batch pipelines, reducing incident investigation time by 30%.
- Executed JMeter performance tests and monitored backend health using Grafana and Splunk logs, raising throughput by 12% across 25000 plus transactions and reinforcing large-scale ingestion experience.
- Elevated release reliability with CI pipelines using GitHub Actions, GitLab CI, and Terraform, cutting deployment errors and saving 10 hours per sprint through automated validation.
- Orchestrated end-to-end CI/CD pipelines utilizing Jenkins, Ansible, Docker, and Kubernetes, achieving 40% enhancement in distributed message processing reliability through hardened security and automated rollouts across three applications.

### Shyena Tech Yarns

#### Software Developer Intern

Pune, India  
Aug 2021 - May 2022

- Built reusable React and TypeScript components connected to Node APIs, MongoDB, and Elasticsearch that improved development speed by 25% and reduced customer questions through consistent data handling.
- Conducted data-driven analysis using Python, SQL, MongoDB, and logs from Terraform and CloudFormation infrastructure as code workflows, identifying API bottlenecks and advancing system-level engineering insight by 40%.

## Projects

### Furniture Studio: AR Visualization E-commerce Site | [Link](#)

- Prototyped AR-enabled drag and drop flows in React and Next.js using WebSockets and a Node.js back-end, allowing users to visualize 100+ furniture assets and improving interaction speed by 20%.

### Carify: Maintenance Insights Platform | [Link](#)

- Conceptualized Python and Streamlit dashboards backed by SQL Server, MongoDB, and Django based scalable web apps to deliver prediction-based maintenance insights for 5,000 users, increasing analysis efficiency by 25%.

### Customer-Facing Portfolio Platform | [Link](#)

- Designed a responsive React and Tailwind platform to present case studies with wireframes, user flows, and usability summaries; embedded WCAG accessibility and SEO best practices, achieving scores of 98 accessibility and 100 SEO.

## Skills

**Frontend:** React, React Native, Next.js, Angular, Vue, TypeScript, JavaScript, HTML5, CSS3, Tailwind, Redux, Figma, A/B testing

**Backend:** Node.js, Express, Java, Python, C++, Django, PostgreSQL, NoSQL, MongoDB, Redis, REST APIs

**Cloud & DevOps:** Azure, AWS, GCP, Docker, Kubernetes, Jenkins, GitHub Actions, GitOps

**Testing and Collaboration:** Unit testing, Cypress, JMeter, Git, JIRA, Confluence, runbooks, Agile, Scrum