

Mohammed Hannan Desai

Software Engineer

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PROFILE

Dynamic and results-driven Software Engineer with over 5 years of experience in designing, developing, and optimizing scalable web and software applications. Proficient in modern frameworks and technologies such as Angular, React, Node.js, and Rust. Skilled in implementing secure, high-performance solutions, including microservices. Adept at leading teams, driving innovation, and ensuring project success through strong problem-solving and technical expertise. A quick learner with a track record of improving performance metrics and delivering user-focused, maintainable solutions.

EDUCATION

New Jersey Institute of Technology, Newark, NJ
MS In Computer Science – *December 2024*

Indus University, Gujarat, India
B.Tech in Computer Engineering – *April 2018*

WORK EXPERIENCE

Graduate Intern, New Jersey Courts
Trenton, NJ – *Sept 2024 - Dec 2024*

- Designed and implemented an expungement form system to automate document generation for court users, simplifying the filing process for expungements and extending access to additional legal documents.
- Developed a scalable and maintainable application using a React frontend and Node.js backend in an Agile workflow.
- Leveraged OpenAI GPT 4.0 API into the application, conducted initial fine-tuning with Llama 3.0 to enhance functionality.
- Implemented end-to-end data encryption to ensure the security and confidentiality of user information.

Technical Lead, Inventyv Software Services Pvt Ltd
Gujarat, India – *June 2023 - Sept 2023*

- Led and supervised a team of 5 plus software developers in the design and development of web applications.
- Defined and optimized workflows and architecture for new software development requirements.
- Strengthened web application security by implementing OWASP standards and Backend-for-Frontend (BFF) architecture to standardize authentication processes, incorporated OAuth with Keycloak & Gluu for secure access management.
- Implemented assembly-level languages like Rust in frontend browser applications to optimize performance and accelerate the execution of resource-intensive tasks, achieving a 50%-70% improvement in web performance.
- Established and enforced coding and security standards for web applications to ensure high-quality development.
- Conducted research and implemented new technologies to enhance project roadmaps and drive innovation.
- Worked and guided designers to create UI/UX mockups in Figma by engaging with stakeholders and implemented them.

Senior Software Developer, Inventyv Software Services Pvt Ltd
Gujarat, India – *June 2021 - May 2023*

- Steered full-stack development on projects across various domains including US tax, healthcare and CRM applications utilizing technologies like JavaScript, Angular, Node.js, Rust, Bootstrap, Couchbase, SQL, Google Cloud Platform (GCP).
- Optimized frontend application performance by reducing initial load times by 40% and enhancing rendering speed by 35% through the adoption of technologies such as AOT (Ahead-of-Time) Compilation, Cache-First Serving, and lazy loading.
- Improved maintainability and enabled simultaneous development by breaking down large frontend applications into micro frontends using Web Components and Webpack 5 Module Federation.
- Designed the Solution Center for a US tax software, integrated IBM Watson AI to enhance customer support by providing accurate and relevant tax-related articles based on customer queries, leading to a 70% reduction in support tickets.
- Partnered with the DevOps team to set up and deploy new software applications on cloud and monitor it over kibana.

Software Developer, I-Link Infosoft Consultants Pvt Ltd
Gujarat, India – *May 2018 - May 2021*

- Worked as a UI Developer for developing responsive, user-focused web interfaces using modern frontend frameworks and technologies, ensuring smooth interaction with backend services in a microservice architecture.
- Collaborated in a cross-functional team to develop RESTful APIs in a microservice architecture.
- Migrated legacy AngularJS projects to the latest Angular version using TypeScript, improving functionality and reducing codebase issues by 40%, while enhancing application performance by 30%.
- Participated in the full software development lifecycle, from requirements gathering and design to development & release.

SKILLS

Languages: Java, JavaScript, Rust, TypeScript, HTML, CSS

Frameworks & Web Technologies: Angular, React, Node.js, Express.js, Socket.io, Bootstrap, Tailwind, Material UI, Web Application Development, Microservices, Micro frontends, Web Components, Offline Web Applications, OAuth 2.0, i18n, Responsive Design, AJAX, RESTful APIs, Version Control

Databases & Storage: Couchbase, MongoDB, Elasticsearch, Kafka, IndexedDB, Amazon S3, minio, SQL, RDS, PostgreSQL

Tools & Platforms: Git, GitHub, CI/CD, Spinnaker, Docker, Kubernetes, Kibana, Jira, NPM, Figma, VS Code, Postman

Cloud: Google Cloud Platform (GCP), Amazon Web Services (AWS), Content Delivery Networks (CDN)

Soft Skills: Problem-solving, Agile Methodology, Time Management, Teamwork, Leadership, Stakeholder Communication