# RAHUL MADISHETTY

in **LinkedIn** | ✉ **rahulmadishetty29@gmail.com** | **+1(619) 535-9299** | ○ **GitHub**

## Professional Summary

Highly accomplished Full Stack Developer with ~9 years of experience in architecting, developing, and maintaining enterprise-grade, performance-optimized applications across healthcare, e-commerce, insurance, and automotive domains. Proven expertise in building robust backend services and responsive frontend interfaces with a strong emphasis on scalability, maintainability, and secure architecture.

- Proficient in frontend technologies including **React.js (Expert), React Native, Angular, NextJs, TypeScript, JavaScript, HTML5, CSS3**, and CSS preprocessors like **SCSS/LESS**, delivering accessible, mobile-first, and cross-browser-compatible UIs with pixel-perfect precision.

- Extensive experience with backend stacks including **Node.js (Express), Django, C#, ASP.Net Core, MVC**, and **Microservices architecture**, building RESTful and GraphQL APIs with robust authentication, business logic, and performance tuning.

- Well-versed in both **SQL and NoSQL** databases including **SQL Server, PostgreSQL, MongoDB, and DynamoDB**, with deep skills in data modeling, indexing, complex queries, and stored procedures for enhanced performance.

- Hands-on expertise in **state management** using **Redux, Context API,** ensuring scalable UI behavior and seamless user experiences in enterprise-grade applications.

- Hands-on expertise with cloud platforms including **Azure** (App Services, Blob Storage, Azure Functions, DevOps) and **AWS** (Lambda, EC2, S3, IAM), deploying cloud-native solutions with scalable infrastructure and automated **CI/CD pipelines** using **Docker, Jenkins**, and GitHub Actions.

- Extensive experience in implementing secure authentication and authorization using **JWT** and **OAuth 2.0**, ensuring alignment with OWASP standards and compliance needs.

- Experienced in testing and quality assurance using **Jest, React Testing Library, Cypress, and Postman**, achieving high code coverage and deployment confidence.

- SEO-savvy with hands-on integration of **Google Analytics and Dynatrace**, enhancing discoverability, reducing load times, and improving user engagement through real-time insights and advanced caching techniques.

- Delivered mission-critical applications integrated with **Stripe** for billing and payment, third-party APIs for external data exchange, and reusable microservices enabling consistent delivery across platforms.

- Consistently delivering on 3+ user stories per sprint while actively contributing to stand-ups, sprint planning, reviews, retrospectives, and cross-functional collaboration.

- Recognized for deep ownership and outstanding performance with accolades such as **Commitment to Excellence** and **Growth Catalyst**, earning multiple promotions and performance-based salary hikes.

- Committed to continuous learning, including hands-on **DSA problem-solving** (350+ **LeetCode**), advanced **system design**, and best practices in full-stack development.

## Technical Skills

**Frontend:** React.js (**Expert**), Angular.js, Express, JavaScript, TypeScript (**Expert)**, HTML5, CSS3, jQuery, SCSS, LESS

**Backend:** NodeJS, ExpressJS, C#, .Net, Asp.Net, Microservices, JWT, OAuth 2.0, GraphQL, API Gateway, CORS

**Database:** SQL Server, Postgres, MongoDB, DynamoDB

**Other Frameworks:** Model-View Controller MVC, ASP.Net, .Net Core

**Web Services:** RESTful, GraphQL

**State Management & Libraries:** Context API, Redux, Zustand, NPM, NumPy, Pandas, Material UI, Tailwind CSS

**CMS & CRM:** WordPress, Joomla, Drupal, Salesforce

**Testing and Automation:** Jest, Enzyme, React Testing Library, Cypress, Selenium

**Leetcode (Very Good at Python and Data Structures):** Excellent track record of solving more than 350 problems, Completed Neet Code 150 Problems, and Strivers SDE Cheat Sheet 191 problems

**Cloud & Deployment:** AWS (Lambda Functions, EC2, S3), Azure (App Services, Blob Storage, Azure Functions, Azure DevOps), Docker, Kubernetes, Jenkins

**Project Management & Agile:** JIRA, Trello, Rally

**SEO & Analytics:** Dynatrace, Google Analytics

**Design & UI/UX:** Figma, Adobe XD

**Other Technologies:** Python (**Expert**), Data Structures (**Expert**), SSRS, SSIS, Webpack, Babel, etc.

**Tools:** Postman, Fiddler, Power Apps, Power BI

## Experience (9 years)

*Company: Flow Global Software Technologies, LLC (* [*https://www.flowai.tech/*](https://www.flowai.tech/) *)*                    **Feb 2024 - Present**
**Role: Senior Full-Stack Developer**                                                                                   *San Francisco, SF*

**Responsibilities:**

- Spearheaded the development of full-stack enterprise applications using **React.js** on the frontend, **and Node.js (Express)** on the backend, leading initiatives that drove a 56% increase in user engagement and a 12% boost in conversion rates within a quarter.
- Led the development of the **Products Dashboard**, designing RESTful APIs and dynamic filtering logic in Node.js while building responsive components in React—resulting in a 42% improvement in lead-to-checkout conversions.
- Architected reusable frontend modules using **Context API**, React Hooks, and modular design patterns, accelerating delivery velocity across teams and reducing redundant code by 36%.
- Integrated **Stripe** for the subscription and billing system, providing a seamless and secure payment flow that led to a **40% reduction in billing-related support requests**.
- Built a **reusable React component library** adopted by two additional teams, reducing overall codebase size by **36%** and improving maintainability across the organization.
- Optimized application performance through advanced **SEO strategies** such as **caching, indexing**, **lazy loading**, **memoization, and route-based code splitting** reducing average page load times by **50%**.
- Refactored legacy code into **modular, reusable components**, reducing over **1,350 lines of code** and improving maintainability and readability across the codebase.
- Transitioned the application architecture to a **Gatsby-based model**, paired with form enhancements and client-side validation, leading to a **200% performance improvement**.
- Revamped the **internal HR user portal**, migrating server-side validations to the client side, enhancing responsiveness by **60%**, and implementing loading indicators to improve the user experience.
- Deployed containerized services on **Azure App Services** and implemented secure file handling via **Blob Storage**, ensuring scalability and adherence to best practices in cloud-native development.
- Established robust **CI/CD pipelines** using **Azure DevOps**, **Jenkins**, Docker, and Kubernetes to automate testing, build, and multi-stage deployment workflows across dev and production environments.
- Resolved critical **production issues**, including:

- Fixing a **file upload bug** caused by NGINX configuration limits on Hetzner servers, increasing file upload capacity from 200MB to 2GB.
- Debugging and correcting a Node.Js **migration error** that blocked deployment, **enabling smooth CI/CD pipeline execution** and **preventing a major release rollback**.
- Single-handedly managed high-priority **production escalations**, demonstrating deep ownership and server-level troubleshooting proficiency.

*Company: Accenture(* [https://www.accenture.com/us-en](https://www.accenture.com/us-en) *) - client: Travelers Insurance*      **June 2021 – July 2023**

**Role: App Development Senior Analyst**      *Seattle, WA*

*Recognized by clients as a key lead resource* (*Growth Catalyst and Commitment of Excellence awards)*

**Responsibilities:**

- Enhanced Travelers insurance web apps boosting user experience by 150% & driving a 200% traffic surge in 3 months.
- Ensured the seamless integration of the **ASP.Net**-based Traveler's application, which accounts for approximately 70% of the overall system, with the **React forms and pages** responsible for the remaining 30%.
- **Built rich, reusable React components with Redux**—including **call-to-action banners**, **ReCAPTCHA** in forms, **cookie-consent** modals, and WCAG-compliant accessibility widgets—driving a **150 % improvement in user engagement** and a **200 % traffic surge** in three months.
- **Integrated GraphQL** and headless CMS content APIs, empowering non-developer stakeholders to update site content instantly and eliminating ~90 % of previously manual code pushes.
- Led a 5-member in developing a variety of reusable components & responsive pages in **React** across various insurance applications drastically **reducing more than 7250+ lines** of code in turn boosting applications performance.
- **Implemented secure JWT authentication** and granular RBAC middleware, unifying sign-on across 70 % of the platform and reducing unauthorized access incidents to zero.
- Enhanced stylings across the entire applications to **SCSS/LESS from CSS reducing more than 1430 lines of code**.
- Resolved up to 85% of **defects** and **Production issues** of Northfield (Node.js + React) & Travelers applications.
- Established end-to-end **CI/CD pipelines with Jenkins + GitHub Actions**, automating linting, **unit tests** (Jest, Enzyme), integration tests (Supertest, Postman), and blue-green deployments.
- Achieved **92 % code-coverage** across critical modules and drove an **85 % reduction in production defects** by instituting TDD and enforcing SonarQube quality gates.
- Actively tracked and resolved 100% of critical, high and medium performance and health related issues of the application through tools like **Google Analytics** and **Dynatrace** to ensure smooth performance of applications.
- Established 100% team efficiency by providing approvals for pull requests after code review and resolving massive amounts of merge conflicts to ensure that all the user stories were ready for production. **Actively participated in the production** of every sprint cycle along with various stakeholders.
- Conceived and delivered a **Skills Assessment Portal** (React + Node.js REST APIs) for Accenture leadership, onboarding 2 000+ consultants in the first quarter and streamlining talent allocation.
- Created PowerApps utilities—*Release Tracker* and *Digital Role Mapper*—to automate sprint analytics and skills matching, increasing PM forecasting accuracy by 30 %.

*Company: Mphasis( https://www.mphasis.com/home.html ) -*                                        **Sept 2018 - June 2021**

*Clients: Blink UX (Ecommerce) and MoneyGram Haas F1 Team (Automobile)*

**Role: Associate Software Engineer**                                                                          *Chennai, CHN*

**Responsibilities:**

- Led the frontend development of a **Retail Credit Management Platform** for a major e-commerce client, building intuitive dashboards using **Angular 8+, TypeScript, RxJS**, and **NgRx** for real-time application processing, significantly improving customer onboarding and approval turnaround by 34%.
- Collaborated with the **Blink UX design team** to implement accessible, pixel-perfect interfaces adhering to WCAG standards, boosting conversion rates and enhancing customer satisfaction scores.
- Developed secure RESTful APIs with **ASP.NET Core** and implemented seamless frontend integration, ensuring transactional integrity across loan approvals, repayments, and statement generation modules.
- Designed and optimized **SQL Server** databases, implementing advanced indexing, views, and **stored procedures** that reduced average query response time by 45% and improved backend report performance.
- Automated periodic client-facing financial reports using **Python**, merging data across sales, credit history, and product categories, then dispatching formatted **Excel summaries** to 13 business stakeholders via scheduled jobs.
- Refactored and optimized SSRS reports to support dynamic filtering and drilldowns, reducing report rendering time by 60% and minimizing support tickets related to data discrepancies.
- Contributed to the development of a **Race Performance Intelligence Tool** for the **MoneyGram Haas F1 Team**, which utilized **Python (Pandas, NumPy, Scikit-learn)** to model performance metrics and flag anomalies in driver telemetry data.
- Leveraged **Streamlit** to build internal dashboards that visualized real-time racing stats, predictive lap-time estimates, and engine stress indicators—directly aiding engineers in mid-race adjustments.
- Built data pipelines to ingest and cleanse high-frequency sensor data (over 2 million entries per race), using **Airflow** and **custom ETL scripts**, enabling timely analysis and decision-making during F1 events.
- Participated in architectural refactoring initiatives, including modernization of existing .NET monoliths to **MVC-based microservices** with **Entity Framework Core**, supporting modular deployments and improved system resiliency.
- Managed deployment workflows using **Azure DevOps CI/CD**, integrating **unit tests, code quality checks**, and **Dockerized builds** to ensure smooth, production-grade releases across both client environments.
- Actively collaborated with cross-functional teams (QA, Product, UI/UX, Data Science) during Agile ceremonies— delivering sprint-ready features every iteration and receiving accolades for technical precision and business alignment.

*Company: Iphysician Hub( https://www.iphysicianhub.com/ )*                                   **June 2017- Aug 2018**

**Role: Associate Software Developer**                                                                        *Hyderabad, HYD*

**Responsibilities:**

- Developed and deployed RESTful APIs using **Spring Boot** and **PostgreSQL** to manage Electronic Health Records (EHR) for a Patient Record Management System, ensuring secure, role-based access across doctors, patients, and administrative staff.
- Engineered backend services using **Node.js (Express)** to support real-time consultation workflows, billing, and prescription generation, handling over 1,500 daily transactions.
- Built responsive single page applications and dynamic UI components for an online consultation platform using **Angular 5**, enabling real-time doctor-patient communication and prescription workflows.
- Enhanced data persistence and query performance by optimizing entity relationships and leveraging **Spring Data JPA** and **Hibernate**, reducing average response times by 40%.

• Integrated appointment scheduling and external calendar syncing (Google Calendar), improving patient booking efficiency and overall clinic workflow.

• Implemented **real-time messaging** features using **Socket.io**, ensuring low-latency communication between patients and doctors during online consultations.

• Structured MongoDB schemas for performance under high concurrency, achieving a 50% reduction in data fetch times for critical modules.

• Integrated third-party APIs for automated SMS/email notifications and real-time event handling.

• Containerized microservices using **Docker** and deployed them on **AWS EC2** instances with **Nginx** reverse proxy setup for scalable production workloads.

• Used **AWS S3** to store and serve medical reports and prescriptions, enabling secure and durable access to patient documents.

• Integrated **AWS CloudWatch** and **Elastic Beanstalk logs** for real-time monitoring, alerting, and troubleshooting of application and infrastructure issues.

• Automated deployment pipelines using **Jenkins** and **Git**, enabling consistent integration and faster rollouts to staging and production environments.

• Implemented **CI/CD workflows** using **Git Hooks**, ensuring automated testing, linting, and build validation before every merge.

• Performed **API testing** with **Postman collections** to verify endpoint reliability and response accuracy; conducted **end-to-end UI testing** with **Cypress** to ensure seamless patient and doctor interactions across key user journeys.

• Wrote comprehensive unit and integration tests using **JUnit** and **Mockito**, significantly improving backend service reliability and minimizing post-release defects.

• Contributed actively to Agile ceremonies, sprint planning, and peer reviews, consistently delivering tasks ahead of schedule and earning recognition for versatility across the stack.


*Company: Spyry Technologies*                                                                    **Feb 2017 – May 2017**
**Role: Software Developer Intern**                                                                            Bangalore BLR


 **Responsibilities:**
• Assisted in developing internal business applications using **ASP.NET MVC**, contributing to features like user registration, session management, and form validation.

• Built and styled dynamic web pages using **Razor views**, **HTML5**, and **CSS3**, collaborating with the frontend team to ensure responsiveness and clean UI design.

• Integrated **SQL Server** with .NET backend services for CRUD operations, creating stored procedures and writing optimized queries for reporting modules.

• Worked on implementing server-side validation and error handling mechanisms to improve form reliability and reduce backend exceptions.

• Participated in code reviews with senior developers, gaining practical insights into object-oriented design principles, SOLID architecture, and code maintainability.

• Deployed test builds to **IIS** servers for QA environments and documented deployment steps, gaining exposure to real-world hosting and configuration practices.

• Utilized **Postman** to manually test RESTful endpoints, ensuring consistent API behavior across various input scenarios.

• Learned version control using **Git** and contributed to feature branches, following structured commit practices and resolving minor merge conflicts under guidance.

• Prepared detailed user guides and technical documentation for modules developed during the internship, easing handoff to the QA and support teams.

## Education

**Purdue University, Indiana**

*Master of Science (M.S.) - Computer Science - (Completed all related Coursework)*

**Employed as a Teaching Assistant (Aug 2023 – Feb 2024)-** to mentor Graduate students through the Human-Computer Interactions curriculum.
My role is extended to guiding students in their projects, reviewing and grading the exams, homework assignments, and projects.

**Employed as a Tutor-** to Guide Math Undergraduate students with their courses related to Computer science.

Relevant Coursework: Full-Stack Web Development, Algorithm Design and Analysis, Human-Computer Interaction, Software Project Management, Heuristic Problem Solving, Software Testing, Game Design Core Skills, Computer Vision.

**Bachelor of Technology (B.Tech.) – Electronics and Computer Engineering**

## Recognitions

- **Growth Catalyst Award** and **Commitment of Excellence** from clients in Accenture for outstanding overall performance.
- NSS (National Service Scheme) Best Volunteer Award (2015 - 2017).
- Student Advisory Board (SAB) member of "The Robotics Club."