

# Kurmathi Sai Prakash Reddy Software Developer

[kurmathi@jobhuntmails.com](mailto:kurmathi@jobhuntmails.com) | (913 ) 372-9400 | USA | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## Summary

Versatile Software Developer with around 3 years of strong experience in full-stack development, cloud computing, and API design. Skilled in modern frameworks, databases, DevOps tools, and testing methodologies. Proficient in delivering secure, scalable, and high-performance applications. Adept at collaborating in Agile teams, writing clean and maintainable code, and driving continuous improvement across the software development lifecycle.

## Technical Skills

- Languages & Frameworks:** C#, JavaScript, NodeJS, HTML, CSS, LINQ, SQL
- Frontend Development:** ReactJS, Redux, Ext JS, Responsive Web Design, UI/UX Principles
- Backend & API Development:** ASP.NET Core Web API, .NET Core, RESTful APIs, Microservices Architecture, API Versioning
- Databases:** SQL Server, Amazon RDS, DynamoDB, Database Design, Query Optimization
- Cloud & DevOps:** AWS (ECS, Lambda, RDS, DynamoDB, CodePipeline, CodeBuild, CloudWatch, CloudFormation), IAM, Encryption at Rest, CI/CD, Infrastructure as Code (IaC), Monitoring & Logging
- Testing & Quality Assurance:** xUnit, Moq, TDD (Test-Driven Development), Integration Testing, Unit Testing, Automated Testing
- Tools & Platforms:** Git, GitHub Pages, Visual Studio, Postman, Swagger, ONNX Runtime, Apache Kafka
- Development Practices:** Agile, Scrum, A/B Testing, Version Control, Clean Code, Code Reviews, SDLC, Secure Coding
- Soft Skills:** Team Collaboration, Problem Solving, Communication, Adaptability, Time Management, Continuous Learning

## Professional Experience

### Software Developer, Marsh & McLennan

08/2024 – Present | Remote, USA

- Collaborated with actuaries, business analysts, and engineering teams to build a Risk Analytics and Insurance Claims Optimization System. Led requirements gathering in agile sprints and contributed to the development of machine learning models and rule-based engines. Improved claim processing accuracy by 30% and reduced false claim approvals by 45%.
- Developed dynamic and responsive UI components using React and Redux, enabling real-time analytics dashboards and customized policy risk visualizations. Conducted A/B testing to refine user workflows, improving usability and reducing agent response time.
- Managed AWS-hosted data infrastructure, including Amazon RDS (SQL Server) and DynamoDB, to store client risk profiles and historical claims. Improved data pipelines and applied encryption at rest and IAM policies to ensure compliance with HIPAA and SOX standards.
- Designed and implemented backend microservices using C# and ASP.NET Core Web API, supporting modules for policy validation, claims processing, and real-time risk scoring. Integrated Apache Kafka for asynchronous messaging and deployed predictive models using ONNX Runtime to ensure sub-second API response times and 99.9% uptime.
- Created robust test coverage with xUnit and Moq for unit and integration testing. Automated build and deployment workflows using AWS CodePipeline and CodeBuild, improving deployment speed by 35% and reaching 85% test coverage.
- Partnered with DevOps to manage cloud infrastructure using AWS ECS, Lambda, and CloudFormation. Used logging, metrics, and alerting via AWS CloudWatch, achieving 99.99% system availability and ensuring smooth deployment of new analytics capabilities across global business units.

### Software Engineer, NCR Corporation Pvt. Ltd

01/2022 – 07/2023 | Hyderabad, India

- Contributed significantly to the modernization of a leading hospitality software product called Aloha Cloud by delivering comprehensive full-stack solutions spanning UI, API, and database layers, enhancing overall system efficiency and user satisfaction.
- Led the complete revamp of a legacy system built with Ext JS and .NET Core Web API into a modern, high-performing ReactJS and NodeJS application, resulting in approximately 50% improvements in performance, scalability, and overall user experience.
- Designed and developed reusable React components that significantly reduced development time and enhanced code maintainability across both new and legacy systems, while increasing overall software performance by 30% via proactive identification and resolution of critical bottlenecks.
- Developed robust, scalable, and API-centric software architectures supporting seamless integrations with third-party systems, ensuring the platform is future-proof and easily adaptable to evolving business needs and technology trends.
- Optimized complex database queries using LINQ and SQL Server, improving data retrieval speeds by approximately 50%, which significantly enhanced application responsiveness and user satisfaction during heavy data operations.
- Applied rigorous TDD methodologies to maintain clean, reliable code, resulting in improved code quality and a substantial reduction in bug rates through comprehensive automated and functional test coverage, while actively participating in Agile practices and key software releases.

### Web Development Intern, The Sparks Foundation

11/2020 – 12/2020 | Remote

- Developed a basic yet functional banking application using JavaScript, HTML, and CSS, effectively demonstrating core banking functionalities such as balance inquiry and secure fund transfer for a foundational user experience.
- Successfully deployed the static web application on GitHub Pages, achieving over 100 views within the first month, showcasing practical skills in frontend deployment workflows and initial user engagement strategies.
- Managed source code efficiently using Git version control, maintaining a clean and well-organized commit history that facilitated collaboration, code traceability, and adherence to version control best practices throughout the project lifecycle.

## Education

Master of Science in Computer Science

08/2023 – 05/2025

University of Central Missouri, Missouri, USA

Bachelor of Technology in Computer Science

06/2018 – 05/2022

KL University Hyderabad, India

## Certifications

Artificial Intelligence Foundations - NASSCOM DevOps &

Cloud Computing - Bytixl

AWS SysOps Associate Certification Training - Simplilearn Python for

Data Science and AI, Coursera IBM