

# Rangasai Kumbhashi Raghavendra

+1 (201) 204-7270 | Jersey City, NJ

[rangasai.kr.96@gmail.com](mailto:rangasai.kr.96@gmail.com) | [linkedin.com/in/rangasai-kr](https://www.linkedin.com/in/rangasai-kr) | [github.com/sudo-rickroll](https://github.com/sudo-rickroll)

## SUMMARY

Software Engineer with experience in developing and maintaining managed and serverless SaaS applications and infrastructures throughout monolith and microservice architectures. Committed to leveraging software development and infrastructure expertise to drive innovation and support strategic objectives.

## TECHNICAL SKILLS

**Languages:** C#, TypeScript, Python, Erlang, C, Rust, PowerShell, SQL, Bash, Java, Go, Groovy  
**Frameworks:** .NET Core, Node.js, FastAPI, Angular, NgRx, Next.js, Vue.js, Blazor, React  
**ORMs:** Entity Framework, Dapper, Pydantic, SQLAlchemy, Prisma, TypeORM  
**Tools:** Kibana, Kafka, RabbitMQ, Docker, Kubernetes, Terraform, Flink, Airflow, Ansible, Firebase, Supabase, Prometheus, Grafana, Claude Code, Antigravity, Cursor, Visual Studio, SSRS, Power BI  
**Databases:** SQL Server, PostgreSQL, MySQL, SQLite, Cassandra, MongoDB, Elasticsearch, Redis  
**APIs and Protocols:** REST, SOAP, WebSocket, GraphQL, OpenAPI, OpenTelemetry  
**Platforms:** Unix, Git, SVN, Jira, Semantic Kernel, LangChain, Azure, AWS, Render, Figma

## WORK EXPERIENCE

### Software Development Engineer Intern

May 2025 – August 2025

*Motorola Solutions*

*Remote, New Jersey, United States*

- Improved communication loop closure time in the public safety domain by an estimated 25% by implementing a read-receipts feature into a websocket and microservice-based messaging application using Angular for the frontend, TypeScript for the API Layer, C# for event processing through Azure SignalR and Azure Service Bus, PostgreSQL and Elasticsearch for data persistence, and Redis for caching.
- Contributed towards organization's SLA of 99.99% for system availability by accommodating fail-over databases in the Kubernetes cluster.
- Optimized LLM-assisted development workflows by architecting a persistent context stack using MCP servers, cursor rules, and memory banks, thus standardizing code generation patterns and cutting feature turnaround time by 70%.

### Senior Principal Infrastructure Engineer

November 2022 – August 2024

*UCB Biopharma*

*Bengaluru, Karnataka, India*

- Reduced manual ticket handling for medical support device catalog by an estimated 20% and decreased average initial response time by 60% by developing and deploying an automated bot for Microsoft Teams, built using Power Automate and CoPilot Studio, based on C#.
- Accelerated development cycles for new apps to process sensitive medical research data by 25% by building a library of reusable TypeScript UI components to be used in PowerApps, which was adopted as the standard for a team of 15+ developers.
- Modified security infrastructure for Power BI reporting for 10+ bio-medical business-related dashboards by architecting a Web API connection via Azure AD through a Power Query, serving 50+ stakeholders while eliminating previous security risks associated with user account-based access.
- Drove a 15% improvement in HoloLens device compliance across surgical centers by creating Power BI reports that provided actionable insights into key metrics, leading to more efficient device management and retrieval.
- Achieved annual cost savings of over \$50,000 by replacing two 3rd party medical helpline applications with custom in-house solutions by leveraging Power Platform and C#, improving process efficiency by 30%.

### Associate - Projects

October 2021 – October 2022

*CTS*

*Bengaluru, Karnataka, India*

- Saved on-field agricultural experts an average of 5-10 minutes per data entry task by developing a C# API that automated the extraction of image location coordinates, reducing manual input errors by nearly 100%
- Enhanced accuracy of survey data for agricultural crop control by 35% by creating complex, logic-driven questionnaires using Power Apps, Power Automate, and C#, thus reducing the time needed for data collection and cleaning.
- Managed ETL pipelines in Dataverse that were responsible for the daily transfer of 5 GB of critical regulatory science business data between environments with a 99.9% success rate, ensuring data integrity.

## Information Technology Analyst

NTT Data

August 2018 – September 2021

Bengaluru, Karnataka, India

- Improved infrastructural redundancy and user experience by 50% by horizontally scaling active servers in the on-premise farm and helping keep IIS application pools active.
- Streamlined training record management for 500+ employees in an insurance firm by developing a centralized SharePoint application using JavaScript and React, reducing manual reporting time for managers by an estimated 5 hours per month.
- Reduced data processing latency for marine insurance systems by 30% and ensured real-time data consistency by integrating 4 disparate enterprise systems using MuleSoft REST and SOAP APIs, into an existing ASP.Net application built from Kendo UI and C#.
- Reduced manual deployment time of claims-handling applications from 2 hours to 15 minutes and cut deployment-related errors by 90% by architecting and implementing a PowerShell automation framework.
- Improved average application response time by 20% and reduced the user-reported bug backlog by 40% by implementing key features and performance enhancements in ASP.NET applications for IT support using C#.

## EDUCATION

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### Stevens Institute of Technology

Hoboken, New Jersey, United States

Master of Science in Computer Science (GPA: 3.91)

August 2024 – December 2025

**Focus Areas** *Distributed Computing, Concurrency Control, Database Management, Unix Programming, Data Structures, Algorithms*

### Visvesvaraya Technological University

Bengaluru, Karnataka, India

Bachelor of Engineering in Electronics and Communication (GPA: 3.50)

August 2014 – June 2018

**Focus Areas** *Micro processors and controllers, Operating Systems, Information Theory, C Programming, Logic Design, VLSI, Field Theory, Satellite Communications*

## CERTIFICATIONS

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- Microsoft Certified: Software Development Fundamentals (MTA 98-361)
- Microsoft Certified: Azure Fundamentals (AZ-900)
- Microsoft Certified: Azure Data Fundamentals (DP-900)
- Microsoft Certified: Azure AI Fundamentals (AI-900)

## PERSONAL PROJECTS

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**DocuMind** | *FastAPI, UV, Pydantic, Redis, ElasticSearch, RabbitMQ, Docker, Kubernetes, LangChain*

- An asynchronous, event-driven document processing engine

**Chess.com AI Assistant** | *.Net Core, TypeScript, PostgreSQL, Angular, Antigravity, Gemini, Claude*

- An AI-based app that provides suggestions to improve an individual's performance in games on Chess.com, based on their monthly archives.