Rangasai Kumbhashi Raghavendra

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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, KendoUI
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, Power Platform, Dataverse, SharePoint

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 end-to-end into a websocket and microservice-based messaging application.
- Contributed towards organization's SLA of 99.99% for system availability by accommodating fail-over databases in the cluster.
- Optimized LLM-assisted development workflows by architecting a persistent context stack using MCP servers, 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 a unified messaging application.
- Accelerated development cycles for new apps to process sensitive medical research data by 25% by building a library of reusable UI components, which was adopted as the standard for a team of 15+ developers.
- Modified security infrastructure for reporting tools for 10+ bio-medical business-related dashboards serving 50+ stakeholders while eliminating previous security risks associated with user account-based access.
- Drove a 15% improvement in AR device compliance across surgical centers by creating analytical 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 while 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 an 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, thus reducing the time needed for data collection and cleaning.
- Managed ETL pipelines 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 · August 2018 – September 2021

NTT Data · *Bengaluru, Karnataka, India*

- Improved infrastructural redundancy and user experience by 50% by horizontally scaling active servers in the on-premise farm and helping maintain connection pools.
- Streamlined training record management for 500+ employees in an insurance firm by developing a centralized application, 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 into an existing application.
- 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 automation frameworks.
- Improved average application response time by 20% and reduced the user-reported bug backlog by 40% by implementing key features and performance enhancements for IT support applications.

EDUCATION

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

- 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

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.