

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

Development Frameworks: .NET Core, Node.js, FastAPI, Angular, NgRx, Next.js, Vue.js, Blazor, React, KendoUI

Testing Frameworks: XUnit, TUnit, Jest, Cypress, Playwright, Pytest, Selenium

ORMs: Entity Framework, Dapper, Pydantic, SQLAlchemy, Prisma, TypeORM

Databases: SQL Server, PostgreSQL, MySQL, SQLite, Cassandra, MongoDB, Elasticsearch, Redis

APIs and Protocols: REST, SOAP, WebSocket, GraphQL, OpenAPI, OpenTelemetry

Tools: Kibana, Kafka, RabbitMQ, Docker, Kubernetes, Terraform, Flink, Airflow, Ansible, Firebase, Supabase, Prometheus, Grafana, Claude Code, Antigravity, Cursor, Visual Studio, SSRS, Microsoft Fabric

Platforms: Unix, Git, SVN, Jira, Semantic Kernel, LangChain, Azure, AWS, Heroku, Render, Figma, Power Platform, Dataverse, SharePoint, Snowflake, Salesforce

WORK EXPERIENCE

Software Development Engineer Intern

Motorola Solutions

May 2025 – August 2025

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 using NodeJS, TypeScript, Angular, Postgres, and C# into an event-driven, websocket and microservice-based messaging application.
- 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, rules, and memory banks, thus standardizing code generation patterns and cutting feature turnaround time by 70%.

Senior Principal Infrastructure Engineer

UCB Biopharma

November 2022 – August 2024

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, written in C# and .Net Core.
- Accelerated development cycles for new apps to process sensitive medical research data by 25% by building a library of reusable TypeScript-based UI components, which was adopted as the standard for a team of 15+ developers.
- Modified security infrastructure for reporting tools in Python 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 designed using Python and Matplotlib, which 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 using FastAPI while improving process efficiency by 30%.

Associate - Projects

CTS

October 2021 – October 2022

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 Angular, thus reducing the time needed for data collection and cleaning.
- Managed ETL pipelines using Python, Bash, and Graph API, which 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 IIS 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 using React and NodeJS, 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 written in ASP.Net Framework.
- 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 automation frameworks using PowerShell.
- 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 using jQuery, Bootstrap CSS, and KendoUI.

EDUCATION

Stevens Institute of Technology

Hoboken, New Jersey, United States

Master of Science in Computer Science (GPA: 3.71)

August 2024 – December 2025

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

Visvesvaraya Technological University

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

Bengaluru, Karnataka, India

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.