

RAMACHANDRAN KULOTHUNGAN

Buffalo, NY • (716) 9947155 • Email • LinkedIn • Portfolio • Open to relocate

WORK EXPERIENCE

Software Dev Cloud Intern	Nokia Bell Labs, Chicago	June 2025–December 2025
<ul style="list-style-type: none">Built cloud-native lifecycle automation for Nokia CMM across Kubernetes environments (NCS, OpenShift) using NCOM, enabling reliable deployment, scaling, and upgrade workflows.Developed an extensible Python library exposing 30+ standardized API and logging abstractions, enabling programmatic integration across automation and orchestration workflows using Jenkins.Automated CMM re-installation workflows for T-Mobile (TMO) using Python and NCOM+ tooling, to reduce manual re-installation time from 9 hours.		
Software Development Engineer	Dassault Systems	August 2020–August 2024
<ul style="list-style-type: none">Built a scalable Python-based internal automation framework adopted by 40+ teams to orchestrate UI and API-driven workflows and CI/CD execution using goCD and Github Actions, significantly reducing manual operational effort.Led a platform decentralization initiative by modularizing shared libraries, defining versioned packaging patterns, and automating artifact publishing to Artifactory using GitHub Actions, enabling team-owned repositories and independent releases.Worked on cloud infrastructure migration and optimization on AWS, designing reusable Terraform modules and right-sizing EC2 resources to achieve 60% cost reduction and faster environment provisioning.Engineered and deployed an internal developer productivity tool (Django, AWS, Kubernetes) to index and search library keywords across 10+ repositories, improving discoverability and onboarding efficiency.Implemented centralized observability and analytics using structured logging and Sumo Logic dashboards to provide real-time visibility into test pipeline health for 30+ teams.Led data validation for a production AWS DMS migration (MySQL → PostgreSQL) by building automated Ruby/SQL integrity checks, ensuring data correctness and reducing manual validation effort by 90%.Recognized with 2 company awards for engineering contributions that reduced system execution time by 50% and improved reliability and scalability across organization-wide platforms.		

PROJECTS

Agentic Job Application Drafter LangChain, Browser Use (YC W25), OpenRouter, FastAPI, Next.js	<ul style="list-style-type: none">Polls RSS feeds for job links and executes a LangChain workflow per job link using Browser Use Agent to extract form XPaths, attaching field values using LLMs, and auto-fill applications through a browser extension.
Agentic Trip Planner Langgraph , OpenRouter, Streamlit	<ul style="list-style-type: none">Created an agentic AI vacation planner using LangGraph and Grok LLMs, integrating Google Maps APIs, currency conversion, and calculation tools to automate personalized itineraries and cut planning time
EmailWhiz - Bulk Cold Emailer Django, React, Tailwind CSS, MongoDB, GCP	<ul style="list-style-type: none">A Django based Web Application, enables users to send 100+ personalized cold emails and follow-ups directly without Gmail redirection.
Anime Recommendation Engine ScikitLearn, Pandas, Streamlit	<ul style="list-style-type: none">Leveraged a dataset of over 700K users and 5M ratings to build a robust anime recommendation system, implementing and evaluating three models, including KNN and matrix factorization, to provide personalized recommendations.

SKILLS

Programming: Python, JavaScript, C, Java	Frameworks: FastAPI, Next.js, Django, React
Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, Databases: PostgreSQL, MySQL, MongoDB GitHub Actions	Domains: Web Development, DevOps

EDUCATION

University at Buffalo Master of Science in Computer Science	Buffalo, NY, USA August 2024 - December 2025
<ul style="list-style-type: none">Relevant Coursework: Algorithms, Computer Security, Computer Vision, Deep Learning, Operating Systems	
Malaviya National Institute of Technology Bachelor of Technology	Jaipur, India July 2016-June 2020