

# KESEVAN SEKAR BALAJI

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## SUMMARY

Software Engineer with 2+ years of experience specializing in **cloud-native automation, distributed systems, and LLM orchestration**. Expert in building event-driven microservices on Azure and optimizing enterprise IAM lifecycles. Proven track record of reducing operational overhead by 30% through Python-based automation and CI/CD excellence.

## TECHNICAL SKILLS

**Languages:** Python (FastAPI, Flask, Pandas, PyTorch), PowerShell, SQL, C++, Bash

**Cloud & Azure:** Logic Apps, Event Hubs, Entra ID, Azure Functions, Bicep, Databricks, Purview, Key Vault

**DevOps:** Git, GitHub Actions, Azure DevOps, Docker, Kubernetes, Terraform, Jenkins

**Data & Visualization:** Power BI, Matplotlib, Grafana, Plotly

## EXPERIENCE

**Shell** **August 2023 – Present**  
Bangalore, India  
*Software Engineer, Tenant Services*

- **Engineered ShellOps** – an LLM-driven orchestration system leveraging Azure Logic Apps and event-driven microservices to automate tenant operations, reducing incident resolution time by **30%**.
- **Architected** distributed workflows using Azure Event Hubs to automate identity lifecycles, scaling to **10,000+ events/day** and eliminating **35%** of manual IAM intervention.
- **Developed** an internal **Identity API** using **FastAPI** and Python for SPN lifecycle automation, streamlining security governance and reducing administrative overhead by **30%**.
- **Orchestrated** a multi-agent AI consultation system using **Azure AI Foundry**, routing complex IAM queries to specialized sub-agents to reduce external dependency by **40%**.
- **Implemented** robust CI/CD pipelines with GitHub Actions and Bicep to automate infrastructure-as-code (IaC) deployments, achieving **98%** deployment reliability.

**Siemens** **August 2022 – June 2023**  
Bangalore, India  
*Technical Research Intern*

- **Developed** a generative learning pipeline using Python and OpenSCENARIO to synthesize **20% more edge cases** for autonomous vehicle testing, reducing manual effort by **30%**.
- **Engineered** computer vision models for surface defect detection in railway rolling stock using **PyTorch**, achieving **75% accuracy** in production-like environments.
- **Built** a 3D simulation and visualization tool in Python for car crash impact analysis, improving sensor calibration insights for AV systems.

**Aerospace Engineers Private Limited** **July 2021 – August 2021**  
Bangalore, India  
*Robotics Research Intern*

- **Optimized** object detection algorithms (YOLO, ResNet) for autonomous drones on **NVIDIA Jetson Xavier**, achieving **75% detection accuracy**.

## PROJECTS

**Deep Research App (WMD)** | *FastAPI, Cerebras AI, Exa, Python* **2024**  
– Built a **multi-agent research platform** that performs parallel query decomposition and web intelligence synthesis.  
– Integrated **Cerebras** for high-speed inference and **Exa** for semantic web search, deployed as a modular backend.

## EDUCATION

**Ramaiah Institute of Technology** **August 2019 – August 2023**  
Bangalore, India  
*B.E. in Computer Science, GPA: 8.89/10*

## CERTIFICATIONS & PUBLICATIONS

**Azure:** AI Engineer Associate (AI-102), Security (SC-900), Data Fundamentals (DP-900), Fundamentals (AZ-900)

**Shell:** e-Certified GenAI Developer; **Publication:** 'Role of RPA in Intelligent Auditing' (Springer)