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**Suprada Rao**

Bangalore, India

supradarao91@gmail.com

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## Professional Summary

Automation Engineer with **9+ years of experience** developing scalable automation frameworks, Android applications, and AI-driven testing systems. Specialized in **voice assistant automation, Node.js tools, and multi-threaded testing frameworks**. Proven ability to design end-to-end testing systems, optimize performance monitoring, and support large-scale AI product validation.

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## Technical Skills

**Languages:** Java, Python, Node.js

**Automation:** Test Framework Development, Voice Assistant Testing, Android Automation

**Databases:** MongoDB, MySQL, SQLite

**Technologies:** Android Development, Machine Learning Integration, Multi-threading

**Methodologies:** Agile, Performance Monitoring, Debugging & Troubleshooting

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## Professional Experience

### Samsung Research & Development, Bangalore

**Chief Engineer** | 2019 – Present

- Developed automation tools for **Galaxy AI voice features** including Live Translator, Dictation, Interpreter, and Text Call.
  - Built **Node.js desktop automation frameworks** for end-to-end validation of ASR and translation systems.
  - Implemented automated evaluation metrics including **Word Error Rate (WER) and Sentence Recognition Rate (SRR)**.
  - Designed tools capturing **non-functional metrics** such as memory usage, device temperature, battery consumption, and latency.
  - Led architecture discussions, code reviews, and technical guidance to ensure scalable automation frameworks.
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## Widas India Pvt Ltd

IoT Consultant | 2015 – 2019

- Developed **Android applications for IoT tracking systems, healthcare, and banking platforms.**
  - Implemented **Java-based unit testing frameworks** to improve application stability.
  - Designed scalable applications from concept to deployment ensuring performance and maintainability.
  - Debugged complex software issues and optimized application performance across multiple devices.
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## Key Projects

### **Galaxy Intelligence Tool Automation (GITA)**

Node.js automation framework for testing Galaxy AI voice features with automated WER/SRR evaluation and performance monitoring.

### **Bixby Regression Tool (BRT)**

Java CLI tool for multi-threaded testing of Bixby server stability with parallel execution supporting **7 languages**.

### **BIXBY End-to-End Automation Tool (BEAT)**

Android application performing voice-based automated testing with UI validation and system log verification.

### **ML Based Device State Predictor**

Backend system using machine learning to detect IoT device states via image analysis.

### **Cidaas Authenticator**

Mobile authentication application supporting **Face Recognition, Fingerprint, Voice Recognition, NFC-FIDO, and TOTP**.

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## Education

Bachelor of Technology – Computer Science

Nitte Mahalinga Adyanthaya Memorial Institute of Technology, Udupi

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