

# Karthik B Magadi

Software Support Engineer (Entry-Level) — Java & Python • CI/CD • DevOps

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## Summary

Detail-oriented and technically grounded Computer Science undergraduate with strong problem-solving, debugging, and collaboration skills. Demonstrates a strong sense of ownership and eagerness to learn, with a self-driven approach to acquiring new skills and technologies. Currently expanding expertise in Agile methodologies, DevOps tools, and test automation frameworks (JUnit). Eager to support customer-facing technical environments and ensure high system uptime.

## Technologies

**Languages:** Java, Python, SQL

**Tools:** Git, GitHub, Docker, Selenium, Tableau, Power BI

**Concepts:** OOP, REST APIs, ETL, Multi-threading, Configuration Management, Scheduling

**Testing:** White-box Testing, Black-box Testing, Functional Testing, Manual Testing

**DevOps & Frameworks:** GitHub Actions, CI/CD Pipelines, Selenium

## Experience

### Data Engineering Intern

*Futureense Technologies*

*Bangalore, KA*

*April 2024 – June 2024*

- Developed, tested, and maintained data processing pipelines, ensuring accurate ETL workflows.
- Monitored pipeline logs and resolved runtime exceptions to support seamless operations.
- Collaborated with cross-functional teams using clear and effective communication to validate data integrity and test logic, contributing to a positive team environment.

## Projects

**IPC Mechanism Simulator** *Java, Multithreading, Concurrency, Piped Streams, Shared Memory, BlockingQueue.*

[GitHub](#) 

- Simulated process communication using Java threads and shared memory concepts.
- Designed logger tools to capture runtime interactions and debug inter-process flow.
- Emulated production-like message handling, helping visualize concurrent job execution.

### NOVA – Voice Based Intelligent Assistant

*Python, speech\_recognition, pyttsx3, custom GUI(PyQt5), Grok API.*

[GitHub](#) 

- Developed a voice-driven assistant that automates user tasks using speech-to-text pipelines.
- Implemented modular error handling to gracefully manage API failures and user miscommands.
- Used Git and manual testing for iterative improvements and debugging.

## Education

**JAIN (Deemed-to-be-University), Faculty of Engineering and Technology (FET)** - *B.Tech in Computer Science - AIML, CGPA: 8.48/10.0*  
**Relevant Coursework:** OS, Data Structures and Algorithms, DBMS, ML

*2022 – 2026*

## Courses

**Operating Systems and You: Becoming a Power User** - 6AQTEBPSHZNN

*2023*

**Python for Data Science, AI & Development** - MDPP8GWLEYAZ

*2023*