# Sajan Saji

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## Professional Summary

Software Development Engineer in Automotive R&D with experience in real-time applications, embedded Linux, and intelligent automotive features. Skilled in C/C++, Python, AI workflows, and system integration.

## Technical Proficiency

**Languages:** C, C++, Python, Java

**AI/ML:** Model training, optimization, Edge-AI apps

**Embedded/Linux:** Bash, Yocto, BitBake, Systemd, Custom Linux builds

**Tools:** Git, GitHub, Jira, Confluence

**Others:** SOME/IP, Shell automation, System monitoring

**UI/UX:** Figma

## Work Experience

**Software Developer Engineer**, UST – Trivandrum, Kerala                          Jan 2025 – Present
  – Developing automotive real-time and embedded applications.
  – Working on SOME/IP communication, image signal processing, and intelligent driver features.
  – Contributed to Driver Monitoring System (DMS), ADAS components, High-Resolution Recording, and DCC tuning.

**Software Developer Engineer Intern**, UST – Trivandrum, Kerala                          Aug 2024 – Jan 2025
  – Learned Kotlin and Android fundamentals (UI, activity flow).
  – Gained exposure to Arduino hardware interfacing.
  – Built basic ML models for image classification.

## Projects

**Driver Monitoring System (Embedded Board)**
- Real-time driver behavior detection; log transfer over SOME/IP.
- Captured & uploaded video/image data to FTP server.

**AI Text Summarizer**
- Built a BART-Large CNN based summarization tool.
- Stack: Python, React (Vite), Tailwind.

**Visitor Management System (OCR)**
- Automated visitor entry using OCR extraction.
- Stack: React, Pytesseract.

## Education

**APJ Kerala Technological University**, B.Tech in Computer Science and Engineering                          Nov 2020 – June 2024
  – GPA: 7.46/10

**Directorate of Higher secondary Education**, Mathematics with Computer Science                          June 2018 – March 2020
  – GPA: 8.98/10