

ASWINTHRAJ DEVARAJ

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SUMMARY

Full Stack AI Engineer building **production-grade AI systems** and **real-time voice/multimodal apps**. Skilled in Google ADK, Gemini Live API, FastAPI, and Next.js with proven results **optimizing** latency, **cost**, and **performance at scale**.

WORK EXPERIENCE

Software Engineering Intern - TechKareer - Bangalore

Jan 2026 - Present

- **Multimodal AI Interviewer** : Built a production-grade Multimodal AI Interviewer using **Google ADK**, **Next.js**, and **FastAPI**. Optimized **Gemini Live API** integration to slash latency by **35%** and ensure bulletproof, real-time session resilience.
- **X Post Automation**: Developed an **autonomous LangGraph + Claude agent** for Web3 content discovery and publishing with **parallel generation** and **AI-based quality evaluation**.
- **Hybrid Agentic Scraper Engine** : Engineered a hybrid scraper using **browser-use** for AI discovery and **Playwright** for extraction. **Reduced LLM costs** by **85%**. High-performance, cost-optimized engineering.
- **Azure AI Infrastructure**: Set up **Azure VPS** for **Crawl4AI** and **n8n workflows**, automating the ingestion pipeline.
- **Soldeed Mobile App**: Built a **React Native app**, managing CI/CD and complete **Closed Testing** for Google Play Store deployment.
- **Web3 Performance Optimization**: Refined the Soldeed web filtering engine, reducing dashboard load times by **40%** using **TanStack Query**.

Software Engineering Intern - Praskla Technology - Namakkal

July 2025 - Dec 2025

Tech Stack: **Electron.js**, **React**, **Konva.js**, **AWS RDS (MySQL)**, **Vite**

- Developed a cross-platform desktop application to digitize **industrial textile manufacturing workflows** with real-time pattern visualization and **production-ready multi-OS deployment**.
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PROJECTS

The Mind Surf - Ai-Powered Document chat & Rag app

[\[Demo\]](#) [\[Github\]](#)

Tech Stack: FastAPI, Next.js 14, TypeScript, Pinecone (Dense + Sparse), Neon , PostgreSQL, asyncpg, Unstructured.io, Tesseract OCR, GPT-4o Vision, BGE-Reranker-v2, Docker

- Built a production-grade **multimodal RAG platform** for intelligent document search and generation, featuring **hybrid retrieval**, **OCR + vision-based ingestion**, **high-performance async backends**, and an optimized low-latency frontend.

Syntax - Full-Stack Quiz & Competitive Programming Platform

[\[Demo\]](#) [\[Github\]](#)

Tech Stack: React, Node.js, Express, Firebase, Redis, Judge API, JWT

- Built a full-stack **competitive programming platform** with role-based access control, **real-time contests**, live code evaluation, and secure JWT-based APIs, optimized using **Redis caching** for high-performance submissions and scoring.
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TECHNICAL SKILLS

- **Languages**: Python, JavaScript (ES6+), SQL, HTML5/CSS3.
 - **AI & Intelligence**: LangGraph, Google ADK, Gemini Live API, Browser-use, Browserbase, RAG.
 - **Frontend**: Next.js, React, Tailwind CSS, React Query.
 - **Backend & APIs**: FastAPI, Node.js, WebSockets/WebRTC, n8n Automation, Clerk.
 - **Database & ORM**: NeonDB (Postgres), Pinecone (Vector DB), Prisma ORM, MySQL.
 - **DevOps & Tooling**: Azure VPS, DigitalOcean, Docker, GitHub Actions (CI/CD), Postman.
 - **Design/Creative**: Blender (3D Modeling & Visualization).
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EDUCATION

Bachelor in Computer Science and Engineering

Sep 2023 - 2027

KSR College of Engineering, Tiruchengode.