

NIVETHA SIVAKUMAR

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SUMMARY

Software engineer with experience in enterprise modernization and engineering productivity automation, working across Java and Python. Built full-stack, API-driven systems and automation pipelines with strong focus on reliability, performance, and developer velocity.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, COBOL, JCL

Frameworks: React, Node.js, Flask, Angular, Flutter

Datastores: PostgreSQL, MySQL, DB2, IMS, Cassandra

Tools: Git, Postman, Power BI, Pandas, Figma

Cloud/Platforms: Azure, GCP, Vercel, GitHub Actions

AI/ML: OpenAI API, Llama3 (local LLMs), NLP, Minimax, Recommendation Systems

EXPERIENCE

Tata Consultancy Services (TCS)

Systems Engineer (Prime)

Oct 2024 – Present

Chennai, India

- Contributed to modernization of legacy systems at a Fortune 500 global FinTech client, leveraging an in-house RAG-based Agentic AI tool to generate optimized **Java** code from mainframe workflows.
- Collaborated in cross-functional Agile teams to deliver high-quality code with strong ownership and iteration speed.
- Wrote automation scripts for data migration and backend tasks; applied prompt engineering and agentic workflows in **Python + Java** to accelerate development and testing.
- Awards:** Star Performer (reusable automation frameworks); Champion of Growth, SEBAF PB 1.1 (highest number of competencies in the team).

KAAR Technologies

FTF FY 2024 Trainee

Dec 2022 – Jul 2023

Remote

- Trained in SAP/ABAP and open-source technologies (Python, Power BI, GCP, Azure); contributed to internal innovation and automation workstreams.

HiLife AI Pvt Ltd

Full Stack Web Developer

Jan 2022 – Mar 2022

Remote

- Led front-end development and collaborated on backend architecture; shipped client-centric features with secure APIs and cross-browser UI.

PROJECTS (SELECTED)

ApplyX - AI-Powered Job Application Automation (Full-Stack + Background Processing)

GitHub / Live

- Built a full-stack platform that parses resumes (AI), scans job sources, generates tailored applications, submits applications automatically, and tracks analytics.
- Designed an API-driven architecture using Next.js 14 + TypeScript, Supabase (Postgres), Playwright automation, background orchestration (Upstash Qstash), storage (Cloudflare R2), and scheduled workflows (GitHub Actions).
- Implemented continuous processing loops and automation hooks for recurring scans and task execution with emphasis on reliability.

Terminal Jarvis - Fully Local LLM Assistant (CLI + Desktop + API Compatibility)

GitHub

- Built an offline assistant running local GGUF models via llama.cpp with terminal REPL and desktop UI interfaces.
- Added model management, streaming responses, local transcript persistence, and optional GPU acceleration; included REST-style compatibility for external integrations.

AI IDE - AI-Powered Online Coding IDE (APIs + Usability)

- Built an online coding IDE with AI-powered voice command execution and intelligent autocomplete using NLP and OpenAI APIs.

Connect4 AI - Minimax + Pruning (Algorithms)

- Implemented an unbeatable Connect4 agent in Python using Minimax with pruning; received a government copyright grant for the gaming algorithm.

Smart Glasses for Alzheimer's - Patent Holder (Systems + Applied AI)

- Designed wearable smart glasses using Flutter, facial recognition, and geo-location algorithms; patent granted by the South African government.

ACHIEVEMENTS

- Star Performer Award (TCS) for reusable automation frameworks.
- Champion of Growth, SEBAF PB 1.1 (highest number of competencies in the team).
- Patent Holder (South Africa): Smart Glasses for Alzheimer's.
- Copyright Grant (Government of India) for a gaming algorithm.
- Top 20 out of 82,000 teams, TNCPL GUVI Hackathon (team).
- Semi-Finalist, TNSI Ideathon 2021; Winner, HiLife AI Internal Hackathon; GSSOC 2024 Contributor.

EDUCATION

K Ramakrishnan College of Engineering, Trichy
B.Tech - Artificial Intelligence and Data Science (CGPA: 9.21)

2020 – 2024

CERTIFICATIONS

- Google Data Analytics Professional Certificate
- NPTEL Cloud Computing (Top 2%)
- Accenture Data Analytics Virtual Internship