

ASBIR KALLADA

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PROFESSIONAL SUMMARY

2026 Computer Science graduate with hands-on experience building and deploying full-stack web applications using React, FastAPI, Node.js, and PostgreSQL. Developed production-ready software used in real-world environments and published IoT/AI research (IJIRT, Impact Factor 8.412). Seeking an entry-level Software Engineer or Full Stack Developer role where I can contribute from day one.

TECHNICAL SKILLS

Languages Python, JavaScript, Java, C, SQL

Backend FastAPI, Node.js, Express.js, REST API, SQLAlchemy, Django (basic)

Frontend React.js, Vite, Tailwind CSS, Framer Motion, HTML, CSS

Databases PostgreSQL (Supabase), MongoDB, SQLite

AI / ML Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, EDA, LangChain, LangGraph, AI Agents, OpenAI API, Gemini API, Hugging Face, Streamlit, Prompt Engineering

Cloud & DevOps Render, Netlify, Git, GitHub, Postman, Linux, Docker (basic)

Embedded & IoT ESP32-WROOM-32, Ultrasonic Sensors, Firebase, Hardware-Software Integration

AI Dev Tools Google Antigravity, Cursor, Claude AI, Lovable, ChatGPT, DeepSeek

INTERNSHIP

AI/ML & Data Science Intern — Capabl India '23 — '24

- Designed and delivered 5 end-to-end ML/data science projects including Spaceship Titanic ML Challenge, Indian Marriage Dataset Predictions, Baseball Player Analysis, Interactive Census Dashboard, and Weather Dashboard using Python, Pandas, Scikit-Learn.
- Built interactive stakeholder dashboards (HTML/JS) integrating external APIs; applied classification, regression, and feature engineering to produce validated models used in internal decision-making.

PROJECTS

Leave Management System — Nrolled Assignment <https://nrolled-leave.lovable.app> '26

Stack: **FastAPI** · **PostgreSQL** · **Supabase** · **SQLAlchemy** · **React** · **Vite** · **Tailwind CSS** · **Render** · **Netlify**

- Built and deployed a production full-stack leave management system within 8 hours as a live interview assignment — employees apply for leave, admins approve/reject with automatic balance deduction.
- FastAPI backend on Render connected to Supabase PostgreSQL; React/Vite frontend on Netlify — both live with persistent data and zero downtime.
- Independently debugged bcrypt version conflicts, Supabase IPv4/IPv6 pooler misconfiguration, and TanStack Router SSR routing — shipped under deadline.

NovaCane — Smart AI Cane for Visually Impaired <https://github.com/n8novaa/NovaCane> '25 — '26

Stack: **ESP32-WROOM-32** · **HC-SR04** · **Firebase** · **Kotlin** · **Jetpack Compose** · **Bilingual TTS** · **IoT**

- Developed three-zone obstacle detection with real-time haptic feedback using ESP32-WROOM-32 and HC-SR04 — validated in real-world testing.
- Built Firebase-powered SOS emergency system and bilingual TTS (English & Malayalam) in a Kotlin/Jetpack Compose Android companion app.
- Published research on this system in IJIRT (April 2026, Impact Factor 8.412, Registration ID: 197375).

SNGCE Workflow Automation System https://github.com/Benson-62/Sngce_Workflow '24

Stack: **React.js** · **Node.js** · **Express.js** · **MongoDB** · **REST APIs** · **SQLite**

- Developed a role-based workflow automation system supporting 7 major user roles — Student, Staff, HOD, Administrative Officer, Principal, Manager, and Admin.
- Digitized paper-based approval workflows used across SNGCE by 1,800+ students and staff.
- Built secure authentication, role-based dashboards, workflow tracking, and approval management.
- Live application: <https://submission.sngce.ac.in/>

Parkinson's Disease Detection <https://github.com/asbir10/Detect-Parkinson-s-Disease> '24

Stack: [Python](#) · [Scikit-Learn](#) · [Pandas](#) · [NumPy](#) · [Matplotlib](#) · [Jupyter Notebook](#)

- Achieved 94.87% accuracy using Random Forest on 195 biomedical voice samples — benchmarked against Logistic Regression, Decision Tree, and SVM.
- Produced full EDA pipeline with feature engineering and model comparison report for voice-based early detection.

Shopping Aggregation Platform <https://github.com/asbir10/shopping-aggregation-platform> '23

Stack: [React.js](#) · [Node.js](#) · [MongoDB](#) · [REST API](#) · [HTML](#) · [CSS](#) · [JavaScript](#)

- Built a React and Node.js web application that aggregates products from multiple sources, enabling users to compare prices, search products, and identify the best available offers through API integration.
- Implemented fully responsive UI across mobile, tablet, and desktop breakpoints with cross-browser compatibility.

PUBLICATIONS

A Survey on AI-Powered Smart Assistive Cane for Visually Impaired Using IoT and Computer Vision

International Journal of Innovative Research in Technology (IJIRT) — April 2026 — Impact Factor: 8.412 — Registration ID: 197375

EDUCATION

B.Tech in Computer Science and Engineering (CSE) — Sree Narayana Gurukulam College of Engineering (SNGCE), Ernakulam

2022 — 2026 · GPA: 6.68

Higher Secondary (12th) & SSLC (10th) — MUESS, Kondotty 2019 — 2022

CERTIFICATIONS

- Data Science Certification — Capabl India
- Machine Learning Certification — Capabl India
- Python Programming Certification — Capabl India

LEADERSHIP & EXTRA-CURRICULAR

Arts Club Secretary — Student Union Council, SNGCE 2025 — 2026

- Organized and managed college-level Tech Fest, Arts Fest, and Logo Launch events end-to-end.
- Handled vendor budgeting, audio/lighting/staging specs (Shure Axient, Sennheiser IEM, GrandMA3, Tiger Touch), and cross-team scheduling with Student Council.
- Coordinated multi-department activities and submitted formal proposals to college authorities.

NSS Volunteer — National Service Scheme, SNGCE 2024 — 2026

- Participated in community service programs, social awareness campaigns, and outreach activities organized by SNGCE NSS unit.