ABIN SKARIA

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My portfolio: 🔗 https://abin-28.github.io/Portfolio/

SUMMARY

Passionate Computer Science graduate with hands-on experience in developing AI-powered full-stack applications. Proficient in integrating LLMs, building scalable systems with Docker, and deploying on modern cloud platforms. Eager to contribute impactful tech solutions to real-world environments.

EXPERIENCE

Internship
INFINITA AI
📅 06/2024 - 08/2024

Internship position focusing on AI and machine learning
- Integrated LLM models for natural language understanding.
- Built real-time streaming capabilities using WebSockets.
- Designed and implemented conversational flows for dynamic user interactions.
- Developed and tested RESTful APIs using Postman.
- Used Git for version control and collaborated effectively via GitHub.

Junior AI/ML Engineer
INFINITA AI
📅 09/2024 - 04/2025

AI/ML Engineer role focused on developing AI projects
- Contributed to the end-to-end design and development of full-stack AI projects, including:
  - A memory-based AI agent platform
  - An AI-powered booking system
  - Multiple custom AI agents
- Containerized services using Docker for scalable deployment.
- Deployed frontend apps using Vercel and managed backend infrastructure on Digital Ocean.

Team Communication & Workflow Management:
 Facilitated Agile team coordination via Slack and Notion. Tracked progress via Linear.

Technologies & Frameworks Utilized:
 Frontend: Next.js │ Backend: Node.js, SQL │ Databases: Supabase, MongoDB
 DevOps: Docker, DigitalOcean, Vercel │ APIs & Testing: Postman
 Version Control: Git, GitHub │ AI/Automation Platforms: Voiceflow, Make

EDUCATION

Bachelor of Technology in Computer Science and Engineering
College of Engineering, Chengannur
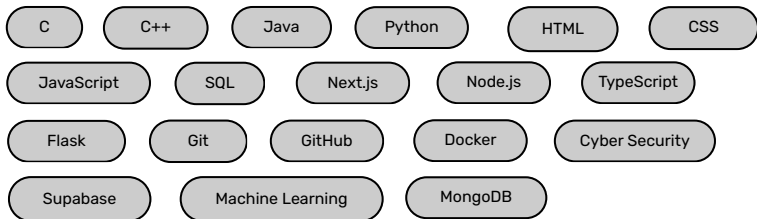📅 08/2020 - 05/2024   📍 Kerala

XII (CBSE)
Kerala School, Vikaspuri
📅 04/2018 - 05/2020   📍 New Delhi

X (CBSE)
Kerala School, Vikaspuri
📅 04/2006 - 03/2018   📍 New Delhi

SKILLS

C · C++ · Java · Python · HTML · CSS · JavaScript · SQL · Next.js · Node.js · TypeScript · Flask · Git · GitHub · Docker · Cyber Security · Supabase · Machine Learning · MongoDB

ACCOMPLISHMENT

- Coursera
  - "Introduction to Software Engineering" – IBM
  - "HTML, CSS, and JavaScript for Web Developers" – Johns Hopkins University
- Completed workshops focused on User Interface (UI) design.
- Volunteered for IEEE and IEDC organizations.
- Volunteered at Tharang, CEC Tech Fest.

PERSONAL PROJECTS

1. AyurHealth
[https://ayurhealth.glitch.me]
- Purpose:
  - Predicts diseases based on symptoms.
  - Suggests Ayurvedic remedies for specific diseases.
- Key Features:
  - Predictor Tab:
    - User inputs four symptoms.
    - Predicts the disease using a Random Forest algorithm with 80% accuracy.
  - Suggester Tab:
    - User enters a disease name.
    - Displays corresponding Ayurvedic remedies.
- Technologies Used:
  - Machine Learning: Random Forest Algorithm
  - Frontend: HTML, CSS, JavaScript
  - Language: Python

2. Movie-Recommender
[https://github.com/Abin-28/movie_recommends]
- Purpose:
  - Recommends similar movies based on user input.
- Dataset Used:
  - Movie dataset containing essential movie details.
- Key Features:
  - Uses a vectorization method to compare movies.
  - Displays top 5 similar movies based on user input.
- Technologies Used:
  - Machine Learning: Implemented in Jupyter Notebook
  - Frontend: Streamlit for web interface
  - Language: Python

3. Bank Management System
[https://github.com/Abin-28/Bank-Management]
- Purpose:
  - Manage core banking operations such as withdrawals, deposits, and account inquiries.
- Key Features:
  - Allows users to withdraw and deposit money.
  - Enables checking of account details and balances.
  - Implements a basic user interface using Turbo C++ graphics module for improved User Interface.
- Technologies Used:
  - Programming Language: C++
  - IDE: Turbo C++

ACADEMIC PROJECTS AND SEMINAR

1. TREKZEN (MAJOR PROJECT)
[https://trekzen11.glitch.me]
- Purpose:
  - Helps tourists plan their trips more efficiently.
  - Suggests optimal travel routes.
- Algorithms Used:
  - Lin-Kernighan (for optimization)
  - Nearest Neighbor (for approximation)
- Key Features:
  - Plans routes for single or multiple-day vacations.
- Technologies Used:
  - Frontend: HTML, CSS, JavaScript
  - Backend: Node.js

2. DNA Storage Channel Simulator (SEMINAR)
[Based on research work using Generative Adversarial Networks (GAN)]
- Purpose:
  - Presented a seminar on how AI (specifically GANs) can be used to simulate errors in storing data using DNA.
- Topics Covered:
  - Basics of DNA data storage and its benefits.
  - Common types of errors in DNA sequencing like insertions, deletions, and substitutions.
  - How GANs can be trained to copy these errors.
  - Use of quality scores to reflect how confident the system is in the data.
  - Future improvements suggested in the research.

STRENGTHS

Team Work · Coordination · Hard Work · Leadership · Critical Thinking · Problem Solving