

# Abin Skaria

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## SUMMARY

Enthusiastic Computer Science graduate with hands-on experience in AI integration, full-stack development, and deploying scalable applications. Passionate about solving real-world problems and creating meaningful impact through technology. Curious, self-motivated, and committed to continuous learning.

**Technical Interests** : Cybersecurity | Artificial Intelligence | Machine Learning | Full-Stack Web Development

## SKILLS

- Languages : Python, C, C++, Java, HTML/CSS, JavaScript, SQL
- AI/ML : Scikit-learn, Pandas, NumPy, LLM integration
- Frontend : Next.js, React
- Databases : MongoDB, Supabase, Firebase
- DevOps & Tools : Docker, Git/GitHub, DigitalOcean, Cloudflare, Glitch, Vercel, Postman
- Backend & APIs : Node.js, Flask, REST APIs
- Soft Skills : Problem Solving, Critical Thinking, Team Collaboration, Work Ethic, Leadership

## WORK EXPERIENCE

**INFINITA AI** - Junior AI/ML Engineer [Intern (3 months) + Full Time]

Remote | Jun 2024 - April 2025

- Built 3+ AI agents from scratch using prompt engineering and OpenAI API endpoints, integrating them with **Voiceflow** to create dynamic conversational systems for client use cases.
- Developed real-time back-end features using **WebSockets**, **REST APIs** and **Node.js** to enable live data exchange and seamless interaction across application components.
- Implemented core security features, including **JWT-based authentication**, session handling, and protected routes.
- Containerized and deployed microservices on **Docker** using **DigitalOcean**, and handled CI/CD with **Vercel**.
- Collaborated on 2+ full-stack projects in an **Agile** setup using **Git**, **Linear** and **Slack** for version control, task tracking, and sprint coordination.

## EDUCATION

College of Engineering Chengannur

Kerala, India | 2020 - 2024

**B.Tech, Computer Science and Engineering** | CGPA: 8.79/10

Kerala School VikasPuri

New Delhi, India | 2018 - 2020

**Class XII** (CBSE, Computer Science) | *Percentage: 89.6%*

Kerala School VikasPuri

New Delhi, India | 2006 - 2018

**Class X** (CBSE) | *Percentage: 84%*

## PROJECTS

**Trekzen – Smart Travel Planner**

[trekzen.onrender.com](https://trekzen.onrender.com)

Tech Stack: Node.js, JavaScript, Firebase, HTML/CSS

- Conducted research on the Traveling Salesman Problem (TSP) by evaluating multiple algorithms for route optimization.
- Selected and implemented **Lin-Kernighan (optimization)** and **Nearest Neighbor (approximation)** after comparative analysis.
- Built a web app to help tourists plan single/multi-day trips with optimized routes, displayed using Leaflet.js with Mapbox integration.
- Achieved over 85% route optimization accuracy on test datasets.

**AyurHealth – Disease Predictor with Ayurvedic Suggestions**

[ayurhealth.onrender.com](https://ayurhealth.onrender.com)

Tech Stack: Python, Machine Learning, Flask, JavaScript, HTML/CSS

- Developed a dual-tab website: “Predictor” for disease diagnosis and “Suggester” for Ayurvedic remedies.
- Implemented a **Random Forest classifier** trained on symptom datasets, achieving ~80% prediction accuracy.
- Designed a remedy mapping system that links predicted diseases to corresponding Ayurvedic treatments.

**LearnScope – AI Learning Platform**

[learnscope.onrender.com](https://learnscope.onrender.com)

Tech Stack: Next.js, React, Node.js, Gemini API

- Built a search system that fetches results from Wikipedia, Google Images, and YouTube, with filtering and responsive UI.
- Implemented **OCR + Gemini AI** to enable document upload and interactive Q&A chat for PDFs, images, and text files.

**Bank Management System**

[github.com/Abin-28/Bank\\_Management](https://github.com/Abin-28/Bank_Management)

Tech Stack: C++

- Created a banking application with features like withdrawals, deposits, and account inquiries.
- Designed custom UI using the **Turbo C++ graphics module** for better user experience.
- Practiced core C++ file handling and basic transaction logic.

## ACHIEVEMENTS

- “Intro to Software Engineering” – IBM (Coursera)
- “HTML, CSS & JS for Web Dev” – Johns Hopkins (Coursera)
- Volunteered at IEEE, IEDC, CEC Tharang Fest – Led event coordination and provided tech support
- Participated in workshops on UI/UX and Frontend Design