

Sherjin A G

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👤 Professional Summary

Highly motivated Computer Science student with a strong foundation in Java, Python, and web technologies (React, FastAPI, MongoDB), seeking to develop innovative software solutions. Proven ability to build scalable full-stack platforms, develop AI models, and optimize performance, with a keen interest in Artificial Intelligence, Web Development, and Database Management.

💻 Technical Skills

- **Programming Languages:** Java, C, Python
- **Web Technologies:** HTML5, JavaScript, CSS, FastAPI, ReactJS
- **Machine Learning:** Scikit-learn, NumPy, Pandas, Tensorflow
- **Databases:** SQL, MongoDB

💡 Area of Interest

Artificial Intelligence, Web Development, Database Management

🔗 Projects

AI-Powered Interactive Learning and Interview Preparation Platform

- Built a scalable full-stack platform using **React, FastAPI, and MongoDB**, designed to gamify computer science and programming education.
- Integrated **TinyLLaMA.cpp** to power an on-platform **AI chatbot** that assists with concept explanation, interview tips, and personalized guidance.
- Engineered an **AI-based mock interview system and group discussion module** simulating real interview environments using NLP and user analytics.
- Implemented **aptitude quiz engine** with 30-minute adaptive tests and performance-based feedback tailored to user's skill level.
- Designed a structured **400-problem DSA practice section** with detailed explanations, code templates, and topic-wise tracking.
- Developed a **12-week roadmap system** covering 5 CS domains, with curated YouTube content, learning tasks, and project assignments.
- Added **game-based learning modules** and mini-games (2048, Tetris) to enhance cognitive engagement and prevent burnout.
- Created a community layer with **discussion forums, notes section, and a dynamic leaderboard** for competitive learning and collaboration.

Student Learning Platform (MERN Stack)

- Implement a full-stack web application using **React, Express, MongoDB, and CSS**.
- **Enhanced user engagement** by providing personalized study plans & real-time analytics.
- **Optimized database queries** to improve load times by **30%**, ensuring smooth user experience.

IPL Web-Based Auction Game (HTML, CSS, JS)

- Developed a **real-time interactive bidding system** with budget management for an IPL auction game.
- Integrated **dynamic AI-based opponent bidding** to simulate real-world auction scenarios.
- Attracted **500+ players** through interactive gameplay and user-friendly UI.

Education

Ponjesly College of Engineering <i>Bachelor of Engineering in Computer Science (Sept 2021 - June 2025)</i>	8.2
St. Mary Goretty Higher Secondary School, Manalikarai <i>Higher Secondary Certificate (HSC, 2020 - 2021)</i>	86%
St. Mary Goretty Higher Secondary School, Manalikarai <i>Secondary School Leaving Certificate (SSLC, 2018 - 2019)</i>	85%

Internships

Inbox Info Solutions (Feb 2025, Nagercoil)

- Designed a **responsive college website** using **HTML & CSS**, ensuring an intuitive UI.
- Improved website loading speed by **25%**, optimizing CSS & reducing unused scripts.
- Ensured **cross-browser compatibility**, reducing UI bugs by **40%**.

M-Squared (July 2024, Thiruvananthapuram)

- Gained hands-on experience in **machine learning model development & deployment**.
- Built a predictive AI model with **85% accuracy**, leveraging Python & NumPy.
- Conducted **data preprocessing & feature engineering**, improving model efficiency.

Certifications

Front-End Web Development – Great Learning (2023)

- Gained expertise in **HTML, CSS, JavaScript**, and responsive design principles.
- Developed interactive web pages and optimized UI for better user experience.

Data Analyst Certification – IBM SkillBuild (2024)

- Learned data visualization, exploratory data analysis, and Python for data analytics.
- Worked with **NumPy, Pandas, PowerBI, MS Excel and Matplotlib** to analyze and present data insights.