

# NEELU KUMAR

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## CAREER OBJECTIVE

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Passionate about software engineering with strong proficiency in Data Structures and Algorithms. Driven by curiosity to understand systems deeply and motivated by analytical, problem-solving. Prioritizing backend engineering and scalable system design for SDE roles. Additionally, I maintain an active curiosity in Machine Learning and AI Core, exploring how intelligent systems work internally.

## EDUCATION

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### **Bachelor of Technology in Computer Science**

Indian Institute of Information Technology, Sri City (Chittoor)

Course Duration: 4 Years

Current Status: Moving to Sixth Semester (Third Year)

## TECHNICAL SKILLS

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**Interest Priorities for SDE Roles:** Backend Engineering, System Design Fundamentals, API Development, Performance Optimization, Application Security

**Secondary Interests (ML/AI):** Machine Learning Fundamentals, Model Training, Classification & Prediction Problems, Data Preprocessing, Computer Vision Basics

**Programming:** Python, C++, Java, C

**Web Technologies:** Node.js, Express.js, React.js, AJAX, JWT Authentication

**Core CS:** Data Structures & Algorithms, Operating Systems, DBMS, OOP

**Mathematics:** Linear Algebra, Probability & Statistics, Calculus, Discrete Mathematics

**Other:** Problem-Solving, Code Optimization, Secure Development Practices

## PROJECTS

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**Secure Authentication System:** Implemented JWT and session-based authentication with Node.js, focusing on token lifecycle security, encryption, and protected routes.

**Full-Stack Web Application:** Built a production-ready MERN-style application with REST APIs, state management, and responsive UI design.

**AI/ML Mini Projects:** Developed classification and prediction models, worked with data preprocessing, evaluation metrics, and model improvement techniques.

## KEY STRENGTHS

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Strong DSA foundation

Analytical and solution-oriented mindset

Curiosity-driven learning (SDE + ML/AI)

Effective communication and teamwork