

## Technical Skills

**Frontend Development:** React.js (Hooks, Context API, Redux), Next.js 14 (App Router, Server Components), HTML5, CSS3, Tailwind CSS.

**Backend Development:** Express.js, Node.js (Event-driven Architecture), Hibernate ORM, RESTful APIs (CRUD).

**Databases & Tools:** MongoDB, MySQL, Git (Version Control), VSCode.

**Programming Languages:** JavaScript, Python, Java, C, SQL.

**Core CS:** Data Structures, Algorithms, Object-Oriented Programming (OOP), Operating Systems, DBMS, Computer Networks.

## Experience

- October 2025 – Present **Search Engine Optimization Developer Intern (Full-time)**, *SDI Solutions*, Bengaluru, Karnataka
- Engineered responsive full-stack web applications utilizing **React.js** and **Node.js/Express.js**, resulting in improved user experience and application performance.
  - Integrated a **MongoDB** database and developed robust **RESTful APIs** to manage user data, authentication, and core application functionalities.
  - Executed **On-Page SEO** strategies, optimizing critical website elements (Meta tags, headings, content structure) to boost search engine visibility.
  - Devised and implemented **Off-Page SEO** tactics to proactively build high-quality backlinks, successfully increasing domain authority and search rankings.

## Projects

- 2024 **Helmet Detection & Number Plate OCR with YOLO**
- Developed a real-time computer vision system to detect non-helmeted riders and extract license plates.
  - Trained a custom **YOLO model** achieving a **92% mAP** (Mean Average Precision).
  - Optimized **OCR accuracy to 89%** via targeted image preprocessing techniques, ensuring high reliability in live scenarios.
  - Technologies:** Python, EasyOCR, YOLO, OpenCV
- 2025 **Student Attendance System**
- Designed and deployed a full-stack system to streamline administrative tasks and communication.
  - Implemented **role-based access** (Admins, Teachers, Students) with features including attendance tracking, performance assessment, and dynamic data visualization.
  - Technologies:** MERN Stack (MongoDB, Express.js, React.js, Node.js)

## Education

- 2021 – 2025 **B.Tech in Computer Science and Engineering**, *Visvodaya Engineering College*, Nellore, Andhra Pradesh, Aggregate: 70%

## Certifications & Development

- June 2025 **Full Stack Web Development Certification**, *Tap Academy*, Bengaluru, Karnataka
- Completed a comprehensive 4-month program focusing on modern web technologies and industry-standard development workflows.
  - Proficiently practiced Git version control and Agile methodologies.
- Present **Mastering Data Structures and Algorithms**, *Udemy / Self-Study*
- Solved **250+ coding problems on LeetCode** to significantly improve problem-solving and algorithmic thinking skills.