

# Ajay Lohith Kulla

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## Career Objective

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Dedicated professional with a background in Electrical Engineering, currently developing skills in Java and AI technologies. A passionate and motivated Full Stack Developer with hands-on experience in React.js, Node.js, and MongoDB. Actively building real-world projects and eager to contribute to collaborative environments.

## Skills

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- **Technical Skills**

Languages: Java, Python, C, C++, JavaScript.

Full Stack: React.js, HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, MySQL (Basics).

Version Control: Git, GitHub.

- **Soft Skills**

Problem-Solving, Team Collaboration, Communication, Time Management, Adaptability.

## Projects

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### PlacementPedia - Full-Stack Platform for Interview Experience Sharing [GitHub Link](#) | [Live Link](#)

- Developed **PlacementPedia**, a full-stack MERN web app enabling students to share and access crowd-sourced interview experiences for better placement preparation.
- Built a secure authentication system using **JWT** and **bcrypt** with role-based access (student/admin), dynamic routing via React Router.
- Deployed with **Vercel (frontend)** and **Render (backend)**, using **React + Tailwind CSS** and **Express + MongoDB**, ensuring scalable and maintainable deployment.
- Integrated external AI APIs to auto-generate company descriptions dynamically, enriching content with minimal user effort and improving research efficiency.
- Designed a responsive, mobile-friendly UI with adaptive layouts and smooth navigation across all devices.
- **Tech Stack:** React.js, Vite, Tailwind CSS, Express.js, MongoDB, JWT, bcrypt

### ListiFy - Minimal To-Do List Web page

[GitHub Link](#) | [Live Link](#)

- Developed a responsive and intuitive To-Do List application with functionality for adding, editing, and deleting tasks.
- Emphasized clean UI design and optimized state management for seamless user experience.
- Applied modular component design and reusable logic using React Hooks to enhance maintainability.
- **Tech Stack:** React.js, Next.js, Tailwind CSS, JavaScript

### CodeComplexer - AI-Powered Code Complexity Analyzer

[GitHub Link](#) | [Live Link](#)

- Built a real-time code analysis tool using Firebase AI to detect time and space complexity and suggest performance optimizations.
- Developed a scalable backend with Firebase Functions and Firestore; deployed on Vercel for seamless integration and fast load times.
- Designed an interactive UI with Monaco Editor, TailwindCSS, and JavaScript, supporting multiple languages with responsive performance.
- **Tech Stack:** Firebase (AI, Functions, Firestore), Vercel, JavaScript, TailwindCSS, Monaco Editor

## Transformer Health Monitoring System

- Developed a IoT-based system to remotely monitor critical parameters of a transformer's voltage, current, temperature.
- Reduced the need for frequent on-site inspections, enhancing safety and operational efficiency.
- **Tech Stack:** Arduino, Wifi Module, Sensors (Voltage, Current, Temperature), IoT Modules

## Internship

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### INDO GERMAN INSTITUTE OF ADVANCED TECHNOLOGY Process Analyst Intern, Visakhapatnam, AP

May 2024 – Jun 2024

- Documented and analyzed microcontrollers and processors.
- Captured workflows via photos and converted data into structured reports.

### Zidio Web Development Intern, Remote

Jun 2024 – Jul 2024

- Contributed to the development of real-world full stack web applications using the MERN stack.
- Strengthened skills in component-based UI development and state management in React.
- Gained hands-on experience in React.js for building dynamic UI components and integrating RESTful APIs.

## Certifications / Achievements

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|--|---------------------|
| • MERN Full Stack Training                     | May 2024 – Jul 2024 |
| • Python Essentials by CISCO                   | Jan 2024 – Feb 2024 |
| • Introduction to the Internet of Things (IoT) | Sep 2024 – Oct 2024 |

## Additional Activites

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- Participated in three-day workshop on RaspberryPi conducted by Institute.
- Gained practical insights into advanced electrical machinery systems during a technical visit to AMTZ.
- Visited Hinduja Power Plant and gained practical understanding of power generation, transmission, and distribution processes.

## Self Declaration

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I hereby declare that the above furnished information is true to the best of my knowledge.

(Ajay Lohith Kulla)