Karthik Alle

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Experience

Software Developer Intern — Yahoo Software Development Private Limited (Remote)   *Feb 2025 – Apr 2025*

- Migrated legacy **Performance Monitoring Tool (PMT)** from a monolithic PHP application to a modern full-stack architecture with React-based UI.
- Designed and implemented **responsive user interfaces** using React, enhancing usability and visual consistency across devices.
- Collaborated on **PMT to Looker migration**, integrating backend data with **Google Cloud Looker** and developing interactive visualization dashboards (Explores).
- **Link:** *Yahoo SDE Intern VOE*

Research Trainee — International Institute of Information Technology Hyderabad   *May 2024 – Oct 2024*

- Selected among top-performing B.Tech students from AICTE-accredited institutions for a competitive 6-month AI/ML program by iHub-Data, IIIT Hyderabad.
- **Received hands-on training in Artificial Intelligence and Machine Learning technologies**, with practical exposure to real-world problem solving through guided industry-oriented assignments.
- **Developed a real-world project on Audio Sentiment Analysis**, addressing customer feedback challenges in call-center environments by analyzing recorded speech data.
- **Implemented emotion detection from speech** to classify customer sentiment as **Positive, Negative, or Neutral**, enabling organizations to extract feedback even when customers do not explicitly respond.
- **Link:** *IIIT-H Reserach Trainee Certificate*

Projects

Task Manager Mobile App
Tech Stacks: React Native, TypeScript, React Navigation, Context API, AsyncStorage

- Developed a **cross-platform Task Manager mobile app (iOS & Android)** using **React Native CLI with TypeScript**, delivering a responsive and scalable user experience.
- Implemented **Stack and Bottom Tab navigation** using **React Navigation v6** and managed global state with **React Context API** and reusable custom hooks (`useTasks`).
- Enabled **persistent local storage** using **AsyncStorage** and implemented complete **CRUD operations** with real-time UI updates.
- Optimized performance using **FlatList**, minimized unnecessary re-renders, and built **weekly analytics with calendar views and dynamic bar charts**.
- **GitHub:** https://github.com/Allekarthik/TaskManagerApp

E-Commerce Seller Management System
Tech Stacks: Java, Servlets, MySQL, JavaScript, HTML, CSS, Tomcat

- Developed a **full-stack web application** for seller product and inventory management using **Java Servlets**, following the **MVC architecture**.
- Implemented secure **authentication, session management, and CRUD REST APIs**, integrating a **MySQL database via JDBC**.
- Designed a **responsive dashboard UI**, connected frontend to backend using the **Fetch API**, and deployed the application on **Apache Tomcat**.
- **GitHub:** https://github.com/Allekarthik/Ecommerce-Seller-Dashboard

Audio Sentiment Analysis of Incoming Calls
Tech Stacks: Speech-to-Text, Speech Recognition, NLP

- Built a **web application for speech-to-text conversion**, transforming spoken audio into accurate text using speech recognition technology.

- Implemented **NLP-based sentiment analysis** to classify transcribed text as **positive, negative, or neutral**.

- Designed a **user-friendly interface** and optimized **text preprocessing and sentiment evaluation** to improve overall accuracy and clarity of results.

- **GitHub:** https://github.com/Allekarthik/AudiosentimentAnalysis

E-Commerce Price Tracker & Analyzer
Tech Stacks:Java, Selenium, Selenium WebDriver, Web Scraping, Automation Testing

- Developed a **Java-based automated tool** to track and analyze product prices on Amazon India using Selenium WebDriver.

- Enabled **multi-product tracking (5+ products)** with extraction of name, price, availability, and timestamp, and generated Excel & JSON reports for analysis and API integration

- Applied **OOP principles** (inheritance, abstraction, encapsulation) and Page Object Model (POM) architecture for clean, maintainable code, while learning dynamic content handling and anti-detection strategies.

- Link : https://github.com/Allekarthik/-E-Commerce-Price-Tracker-Analyzer

Skills

Programming Languages: C, C++, Java, TypeScript, JavaScript (ES6+)

Mobile App Development: React Native (CLI), React Hooks, React Navigation, Context API, AsyncStorage, FlatList

Web Development: React.js, HTML5, CSS3, JavaScript, REST APIs, Fetch API

Backend Development: Java Servlets, JDBC, Session Management, MVC Architecture

Databases: MySQL, SQL

Data Visualization: Google Cloud Looker, Dashboards, Explores

Tools & Technologies: Git, GitHub, Postman, VS Code, Apache Tomcat, Selenium

Core CS: OOP, Data Structures, DBMS, Operating Systems (Basics), Computer Networks (Basics), Automation Testing

Education

JNTUH College of Engineering, Kukatpally   Hyderabad, India
Bachelor of Technology — Computer Science and Engineering   *Sep 2022 – Jun 2025*
CGPA: 9.13/10

Government Institute of Electronics, Secunderabad   Hyderabad, India
Diploma — Computer Science and Engineering   *Jun 2019 – May 2022*
CGPA: 9.73/10

Siddhartha High School, Korutla   Karimnagar, India
Telangana Board of Secondary Education (Class X)   *Jun 2018 – Apr 2019*
CGPA: 9.8/10

Achievements

- Secured State Rank 13 in Engineering Common Entrance Test (ECET) 2022 among 24,000 candidates.

Responsibilities

- Served as Class Representative for 3 years during Diploma and for 2 years during B.Tech, acting as a primary liaison between students and faculty.

- Demonstrated leadership and responsibility by organizing discussions and supporting academic planning.