

Pavan Sai Chilukala

pavansai.ch@outlook.com | [linkedin.com/in/pavanchilukala/](https://www.linkedin.com/in/pavanchilukala/) | github.com/pavan-sai-ch

University of Central Missouri – M.S. Computer Science

Graduation: Dec' 2025 | GPA: 3.8

Skills

- **Languages & Frameworks:** JavaScript, React, React Native, NodeJS, Python, HTML5, CSS, PHP, Java, C++, Tailwind CSS, Bootstrap
 - **Databases:** MySQL, PostgreSQL, MongoDB, Neo4j
 - **Tools & Platforms:** Git, GitHub, Postman, Firebase, Tableau, Vercel, Render, NumPy, Pandas, Matplotlib
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Work Experience

Teaching Assistant – Design and Analysis of Algorithms – University of Central Missouri

Jan 2025 – May 2025; Aug 2025 – Dec 2025

- Evaluated 500+ undergraduate assignments involving **pseudo-code, flowcharts, and algorithm design representations**.
- Assessed solutions for **logical correctness, efficiency, clarity, and adherence to problem constraints**.
- Applied knowledge of **time complexity analysis** and **data structures** to ensure consistent, accurate grading.
- Maintained detailed grading records and delivered **timely, constructive feedback** in coordination with the course instructor.

React Native Intern – Dhanush Infotech Pvt Ltd, Hyderabad

Sep – Dec 2022

- Built **50+ UI components** for mobile applications across different projects using **React Native**.
- Integrated **100+ APIs** for **data fetching** and **server-side data posting**.
- Created **30+ deep links** with **Redux** and **push notifications** using **Firebase**.
- Researched and integrated **open-source packages** to enable new features and improve **UI performance**.
- Deployed and updated applications to the **App Store** and **Play Store**.

Projects

- **Vet Clinic Service Booking Platform (2025):** Developed a full-stack application for a vet clinic using a **React** frontend, a **PHP** backend, and a **MySQL** database; integrated **Amazon S3** for secure photo storage and implemented key features such as user authentication and appointment scheduling.

- **C3-Carpool Connect (2024):** Developed a **ride-sharing platform** with **Flask** backend and **React** frontend; deployed on **Render** and **Vercel**; managed data with **MongoDB Atlas** to connect riders and passengers efficiently.
 - **Privacy Preservation of Biometrics (2023):** Built a secure **JSP** app using **encryption** to protect biometric data on the **cloud**.
 - **Black Friday Sales Prediction (2022):** Created a **Python** predictive model analyzing customer behavior to optimize holiday inventory stocking.
 - **Library Management System (2018–2019):** Engineered with **Java** and **MySQL**, featuring a robust **relational database** and **CRUD** operations ensuring data integrity.
 - **Restaurant Billing System (2017):** Designed using **Java** and **MySQL** to handle order management, billing, and printing with efficient data querying.
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Certifications & Trainings

- **React – The Complete Guide**, Udemy: Core React concepts, hooks, states, and scalable app development.
 - **React Native – The Practical Guide**, Udemy: Cross-platform app building, navigation, API integration, deployment.
 - **Database Design and Basic SQL in PostgreSQL**, Coursera: Relational design, normalization, basic SQL queries.
 - **Intermediate PostgreSQL**, Coursera: Advanced SQL, optimization, and database management.
 - **Supervised Machine Learning: Regression and Classification**, Coursera: Fundamental supervised learning algorithms for regression and classification.
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Presentations & Seminars

- **Edge Federated Learning & Big Data in Healthcare:** Covered decentralized AI, privacy-preserving data analysis, and real-world healthcare applications.
- **Data Visualization and Analysis of U.S. Electricity Prices:** Analyzed regional pricing trends using interactive visual analytics tools.
- **React Native Cross-Platform Development:** Discussed performance, development speed, and tradeoffs of React Native mobile apps.
- **Blockchain Technology & Applications:** Presented blockchain basics, smart contracts, and industry use cases in finance and supply chain.
- **Big Data Analytics in E-commerce:** Explained customer behavior modeling, personalized marketing, and inventory optimization using big data techniques.