

PAVAN SAI CHILUKALA

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Professional Summary

Results-driven **Software Developer** and M.S. Computer Science candidate with a specialization in building high-performance web and mobile applications. Expert in **React, Node.js, and Swift**, with a proven track record of architecting decoupled systems, optimizing algorithmic efficiency, and delivering visually consistent web solutions. Adept at managing full-cycle deployments and complex API integrations for production-grade software.

Technical Skills

Languages & Frameworks: JavaScript (ES6+), Swift, Next.js, React, React Native, Node.js, Python, PHP, Java, C++, HTML5, CSS3/Tailwind CSS.

Databases & Cloud: MySQL, PostgreSQL, MongoDB Atlas, Neo4j, Amazon S3, Firebase, Vercel, Render.

Core Competencies: RESTful API Integration, Distributed Systems Architecture, Git-flow, CI/CD Pipelines.

Projects

Vet Clinic Booking Platform (Daily Wag) | Full-stack Lead 2025

- **Tech Stack:** React, PHP, MySQL, Amazon S3, JWT authentication.
- Architected a decoupled system focusing on modular component architecture and secure cloud-based medical record management.
- Engineered custom scheduling logic to manage multi-vet availability and prevent concurrent resource conflicts during high-traffic booking periods.

C3-Carpool Connect | Lead Developer 2024

- **Tech Stack:** React, Flask, MongoDB Atlas, Vercel, Render.
- Developed a scalable ride-sharing interface matching users via optimized geo-spatial proximity queries, achieving sub-second matching latency.
- Maintained automated CI/CD pipelines to ensure **99.9% system uptime** and seamless feature rollouts for production users.

Work Experience

Dhanush Infotech Pvt Ltd Sep 2022 – Dec 2022
React Native Intern Hyderabad, India

- Built **50+ modular UI components** using React Native to enhance frontend scalability and maintain consistent design patterns.
- Integrated **100+ RESTful APIs** for real-time synchronization between the mobile client and backend server, managing complex application state.
- Managed version control and complex merge conflicts within a strict **Git-flow** environment to ensure stable production releases.

University of Central Missouri Jan 2025 – Dec 2025
Graduate Teaching Assistant Warrensburg, MO

- Mentored 50+ students on **Time Complexity Analysis** and the selection of optimal data structures for large-scale data processing tasks.
- Evaluated **500+ student implementations** for logical correctness and efficiency, providing detailed feedback on algorithmic optimization.

Education

University of Central Missouri Aug 2023 – Dec 2025
M.S. Computer Science GPA: 3.8 / 4.0

Certifications

React - The Complete Guide, Udemy (2025) | **Hybrid Mobile Development (Swift)**, Udemy (2026).
Advanced SQL Optimization & Relational Database Design, Coursera (2023).
React Native- The Practical Guide, Udemy (2023)