

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, React Native, Swift, and PHP** with a proven ability of architecting decoupled systems, optimizing algorithmic efficiency, and delivering visually consistent web and mobile solutions. Adept at managing full-cycle deployments and complex API integrations for production-grade software.

Work Experience

Dhanush Infotech Pvt Ltd

React Native Intern

Sep 2022 – Dec 2022

Hyderabad, India

- Built **50+ modular UI components** to enhance frontend scalability and maintain consistent design patterns. Used memoization techniques and open-source libs to update 20+ existing components and create 80% faster TAT.
- Integrated **100+ RESTful APIs** for real-time synchronization between the mobile client and backend server, managing complex application state. Used lazy async dynamic loading to create 70% faster UI responsiveness.
- Managed version control and complex merge conflicts within a strict **Git-flow** environment to ensure stable production releases. Published **7** application updates to App Store and Play Store. Integrated **Google OAuth** authentication.
- Leveraged Firebase notification service to create **20+** dynamic deep linked(redux) navigation flow to different screens.

University of Central Missouri

Graduate Teaching Assistant

Jan 2025 – Dec 2025

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

M.S. Computer Science

Jan 2024 – Dec 2025

GPA: 3.8 / 4.0

Jawaharlal Nehru Technological University

B.Tech. Computer Science and Engineering

Aug 2019 – Jul 2023

GPA: 3.75 / 4.0

Technical Skills

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

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

OS and Tools: MacOS, Linux(Ubuntu), Windows, RESTful API Integration, Distributed Systems, Git, GitHub, Docker Containers, CI/CD Pipelines, Tableau, PyCharm, WebStorm, IntelliJ Idea, VSCode, XCode.

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. Used PHPCookie for session handling and redux store for client side authentication.
- Engineered custom scheduling logic to manage multi-vet availability and prevent concurrent resource conflicts during high-traffic booking periods. Managed to deliver high ownership style interface for doctors.
- Created a store with cart system with variable pricing based on customer loyalty program and type of orders.
- Delivered a admin dashboard for purchase patterns and insights on customer behaviour and **200+** store products.

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.