

PAVAN KUMAR VIPPARLA

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ Master of Science in Computer Science	December 2024 GPA: 3.7/4.0
MLRITM College of Engineering, Hyderabad, India Bachelor of Technology, Computer Science Engineering	May 2023 GPA: 7.50/10

SKILLS

- **Programming Languages & Tools:** Java, C++, Python, JavaScript, HTML, CSS, SQL, Git, Visual Studio, Eclipse and Microsoft Suite.
- **Technical Skills:** Web Development, Database Management, Software Development Practices, Algorithms and Data Structures, Development Tools, Cloud Computing (AWS, Azure), Agile Methodologies, Unit Testing, API Development.
- **Soft Skills:** Adaptability and Flexibility, Critical Thinking, Time Management, Leadership, Problem Solving and Teamwork.

WORK EXPERIENCE

The P Foundation, Norman, Oklahoma, USA Data Science and Product Developer Intern	May 2024 - Present
<ul style="list-style-type: none">• Solely Engineered an AI-powered platform on replit.com focused on human behavior analysis, providing tailored recommendations for improving personal and relational dynamics, health, and self-awareness.• Independently Implemented a secure login system with OTP verification, and automated AI-generated insights, streamlining user interactions and delivering personalized experiences.• Developed an eye disease detection model using deep learning and computer vision, achieving high accuracy (e.g., 95%) in detecting conditions like Glaucoma and Cataract.• Preprocessed large datasets (e.g., 10,000+ images) to improve model performance, resulting in faster training times and enhanced accuracy• Optimized machine learning workflows through end-to-end automation scripts and advanced data augmentation techniques, improving model performance and reducing manual intervention.	

PROJECTS

Online Doctor Appointment Booking System PHP and MySQL	
<ul style="list-style-type: none">• Deployed web development techniques to build an Online Doctor Appointment Booking System using PHP and MySQL. Managed user accounts, doctor profiles, and appointment schedules while ensuring efficient data storage and retrieval through MySQL databases.• Engineered a comprehensive web-based system that enables users to browse doctor profiles, book appointments, and manage schedules. Developed backend functionality in PHP, implemented user authentication, and leveraged MySQL for robust database management, delivering dynamic page rendering for a seamless user experience.• Streamlined healthcare services by allowing patients to schedule appointments conveniently, reducing wait times, optimizing doctors' schedules, and enhancing overall user experience through accessible, user-friendly functionality.	
Library Management System Using PHP, HTML, CSS, MySQL	
<ul style="list-style-type: none">• Harnessed web development technologies to build a Library Management System using PHP, HTML, CSS, and MySQL. Handled book cataloging, user accounts, and loan tracking, while ensuring the structured storage and retrieval of data through a MySQL database.• Developed a web application that automates key library functions, such as adding, updating, and deleting book records, managing user profiles, and tracking borrowing and returns. Utilized PHP for backend operations, HTML and CSS for front-end design, and MySQL for database management, delivering a comprehensive solution for library operations.• Optimized library services by streamlining operations, enhancing user satisfaction, and improving inventory control and data integrity. Enabled libraries to manage resources more effectively, leading to increased productivity and user engagement.	
Stream-Z: AI-Powered Global Streaming Search Platform	
<ul style="list-style-type: none">• Designed and developed an advanced React-based streaming search platform, Stream-Z, allowing users to discover movies and series across various global streaming platforms, utilizing the TMDb API to deliver real-time search results and comprehensive metadata.• Implemented and integrated a search engine feature, dynamically filtering movies and series by country and streaming service. Enhanced user experience by providing instant visibility into which platforms and countries content is available, tailored for both regional and global audiences.• Optimized platform scalability and performance, handling API data for over 190 countries and multiple streaming platforms like Netflix, Amazon Prime, Disney+, Hulu, and more. Collaborated on refining UI/UX to support smooth navigation and accessibility, leading to improved engagement and user satisfaction.	

PUBLICATIONS

- **User-Centered Design in Agile: Integrating Psychological Principles for Enhanced User Experience.** Peer-reviewed publication in Volume 10, Issue 05, May 2024, pp. 9888-9892.