PAVAN KUMAR VIPPARLA

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ — **December 2024**
Master of Science in Computer Science — **GPA**: 3.8/4.0

MLRITM College of Engineering, Hyderabad, India — **May 2023**
Bachelor of Technology, Computer Science Engineering — **GPA:** 7.50/10

SKILLS

- **Programming Languages & Tools:** 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, 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 — **May 2024 – December 2024**
Full-Stack Web Developer with AI Focus — **September 2024**

- **Designed and developed** an AI-powered platform on Replit.com for human behavior analysis, delivering personalized recommendations to enhance well-being, relational dynamics, and self-awareness.
- **Engineered and implemented** a secure login system with OTP verification and automated AI-generated insights, optimizing user engagement and ensuring a seamless, personalized experience.
- **Streamlined authentication processes** by crafting secure workflows and user-friendly interfaces, demonstrating expertise in secure, impactful, and user-centric technology solutions.

Data Science and Product Developer Intern — **May 2024**

- **Built and optimized** an advanced eye disease detection model using deep learning and computer vision, achieving 95% accuracy in diagnosing conditions like Glaucoma and Cataract.
- **Managed and transformed** large datasets (10,000+ images) through preprocessing and augmentation to improve model accuracy and reduce training time, leveraging Python, TensorFlow, and Keras.
- **Automated machine learning workflows** by creating end-to-end scripts and integrating advanced data augmentation techniques, boosting efficiency and scalability across pipelines.

SRI SAI VIVEKA TECHNOLOGIES (SSVT), Hyderabad, Telangana, INDIA — **Jun 2020 – Jun 2023**
Web Developer

- **Engineered** and deployed high-performance web applications using **HTML, CSS, JavaScript, PHP, and MySQL** to enhance user engagement.
- **Implemented** and optimized API integrations to streamline data flow and improve application functionality.
- **Collaborated** with cross-functional teams to deliver scalable and secure web solutions that met business goals.
- **Optimized** website performance through caching strategies and code refactoring, ensuring faster load times and improved efficiency.

PROJECTS

Online Doctor Appointment Booking System PHP and MySQL

- **Developed** a dynamic web-based appointment booking system using PHP and MySQL, **managing** user accounts, doctor profiles, and schedules with efficient database handling.
- **Implemented** secure user authentication and robust backend functionality, enabling seamless browsing, booking, and schedule management.

Library Management System Using PHP, HTML, CSS, MySQL

- **Developed** a comprehensive library management system by **automating** book cataloging, user accounts, and loan tracking, **enhancing** operational efficiency and accuracy.
- **Integrated** intuitive front-end interfaces with robust backend operations, **streamlining** book management processes and improving user experience.

Stream-Z: AI-Powered Global Streaming Search Platform

- **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.
- **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.