SAI SURYA KARTHIK PITHANI

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EDUCATION

California State University, San Bernardino **Aug 2023 – May 2025**
Master of Science in Computer Science. *San Bernardino, California*

Sathyabhama University **July 2016 – May 2020**
Bachelor of Engineering, Computer Science and Engineering. *Chennai, Tamil Nadu*

TECHNICALL SKILLS

Programming: Python, C, C++, Java (OOPS)

Web Technologies: React, Html, Tailwind CSS, JavaScript, JSON

Frameworks: Next.JS, Node.JS

Tools: VS Code, Git, WordPress, Unity

Database & Cloud: SQL, MySQL, Mongo DB, SQLite, AWS (EC2, S3, IAM, ECS, Lambda)

PROFESSIONAL EXPERIENCE

Tech Mahindra **May 2021 – July 2023**
PL/SQL Developer *Hyderabad, Telangana*

- Optimized data conversions by 20% through refined triggers, packages, functions, and procedures, enhancing system performance.
- Boosted testing efficiency using unit, integration, function, and performance test scripts for reliable software validation.
- Resolved 95% of CT defects, ensuring seamless testing outcomes and improved software stability.
- Worked with developers to fix critical bugs, minimizing release delays and enhancing product quality.
- Designed test cases, logged defects, and managed test data efficiently using JIRA and Confluence for streamlined testing.
- Demonstrated excellent communication and teamwork skills, collaborating effectively with developers and stakeholders.

PROJECTS

Netflix-GPT: AI-Powered Movie & Show Recommendations | (*React, Redux, Tailwind CSS, OpenAI API, Firebase, TMDB API) (GitHub)*

- Developed an AI-powered movie and show recommendation system inspired by Netflix using React and Redux.
- Integrated OpenAI API to generate smart, context-aware recommendations based on user preferences.
- Implemented user authentication and database storage with Firebase, ensuring seamless login and data persistence.
- Fetched real-time movie data (Popular, Recently Released, Top Rated, Upcoming) from TMDB API after requesting and acquiring an API token key.
- Implemented multilingual functionality, allowing users to browse and search in different languages for a global experience.
- Enhanced search functionality with GPT-based natural language processing (NLP) for personalized suggestions.
- Utilized efficient API handling and asynchronous operations to improve app performance and user experience.

Fin-Tastic Division: Educational Math Game (Ages 5-8) | Amazon App Store | *(c#, SQL, Python, Unity, Adobe Firefly, Sketchbook) (GitHub)*

- Collaborated within a 12-member team, gaining hands-on experience in game development, problem-solving, and user-centered design.
- Conceptualized and crafted characters, backgrounds, and UI/UX, contributing to a 55% increase in the dynamic appeal of the math game.
- Applied exceptional animation and VFX techniques, resulting in a 50% enhancement of interactivity and educational value.
- Implemented rigorous testing plan, reducing post-launch bug reports and enhancing user satisfaction.
- Established a motivating reward system and parental controls, leading to a 20% improvement in personalized learning experiences.

Cloud Computing Application | *AWS Cloud Service Hands-on Projects*

- Configured **AWS ELB** and **EC2 Auto Scaling** to ensure availability and scalability for a web application.
- Integrated **AWS RDS** with **ElastiCache** and **Lambda** to reduce system load by caching frequent database queries.
- Deployed a machine learning service API on **AWS EKS** with **Kubernetes** and **Docker**, managing resources for services.

Statistical Analysis Based Prediction Model for Heart Disease Rates in Patients | *Python, Machine Learning Algorithms*

- Classified heart disease types by selecting key features labeled by medical experts using feature selection and dedicated algorithm.
- Combined classification results with cardiologists' knowledge through a recommender model to calculate personalized heart disease risk scores and provide patient-specific recommendations.