Harshitha Puli

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LinkedIn: linkedin.com/in/harshitha-puli/ | GitHub: github.com/puliharshitha
Portfolio: puliharshitha.github.io/Portfolio/ | **(Open to Relocate)**

Dedicated Computer Science professional With 2+ years of experience, specializing in building scalable, high-performance applications across web, mobile, gaming, and enterprise platforms.Proficient in C++, Java, JavaScript, Python, SQL, React, and Node.js, I design responsive interfaces and intuitive user experiences. With expertise in full-stack development, I create robust back-end systems and optimize performance to ensure seamless functionality across applications and games. Passionate about problem-solving, I deliver innovative, data-driven solutions under tight deadlines. A collaborative and detail-oriented team player, I thrive in cross-functional environments to develop impactful applications. Skilled in tools like Git, VS Code, Figma, and MySQL, I am committed to crafting user-friendly, scalable, and efficient digital experiences.

Professional Experience

Makerspace — **Sacred Heart University**   Connecticut, USA
Software Developer   *Nov 2023 – Dec 2024*

- **Engineered scalable, high-performance web applications** using **HTML, CSS, JavaScript, and Python**, ensuring seamless system integrations, cross-browser compatibility, and optimal responsiveness. Developed modular, reusable code to enhance maintainability and scalability across projects.
- Designed and maintained relational databases using **MySQL**, ensuring efficient data storage, retrieval, and scalability for web and mobile applications. Optimized database queries to **reduce response times by 20%** and implemented secure authentication systems to protect user data.
- Passionate about building scalable, high-performance back-end systems that power seamless and efficient digital experiences.
- Configured and customized **VS Code for efficient development** workflows, integrating tools for version control (Git), debugging, and code linting to streamline processes in **C++, Java, JavaScript, and React**. Implemented automated testing pipelines to ensure code quality and reduce deployment errors by 25%.
- Conducted hands-on training sessions and workshops on modern front-end development, responsive design, and **UI/UX** best practices. Equipped aspiring developers with industry-relevant skills in HTML, CSS, JavaScript, React, and a**ccessibility-focused design**, fostering a culture of continuous learning and growth.
- Achieved **a 95% client satisfaction rate on the Discover project** by implementing innovative **UI/UX strategies**, interactive animations, and seamless navigation flows. Conducted usability testing to identify pain points and delivered solutions that enhanced the overall user experience.

Game Developer   *Aug 2023 - Nov 2023*

- Configured and customized **Unity and VS Code** for efficient game development, integrating tools for version controlGit), debugging, and performance profiling to streamline workflows.
- Successfully delivered 10+ design projects on time, including branding, marketing materials, and digital assets, using tools like **Inkscape, Procreate, and Canva**. Specialized in creating hand-drawn game assets, including characters, environments, and UI elements, adding a unique and artistic touch to gaming projects
- Developed interactive **web-based games using JavaScript** and Three.js, integrating real-time animations, physics-based interactions, and multiplayer functionalities. Optimized gameplay mechanics for seamless browser performance and cross-device compatibility.
- Designed and implemented intuitive UI/UX elements in Unity, including HUDs, interactive menus, inventory systems, and dialogue interfaces. **Utilized Unity UI Toolkit, TextMeshPro, and custom animations** to enhance visual appeal and usability.

Projects

Sales Forecasting | *Python, ML, XGBoost, HTML, CSS, SQL*
- ∗ Developed a highly accurate sales forecasting model using **XGBoost Regressor**, **leveraging hyperparameter tuning, cross-validation, and feature engineering** to handle complex business variables such as pricing, product attributes, and outlet details.
- ∗ Designed a **scalable system architecture** capable of processing **10,000+ data points daily**, ensuring adaptability to evolving business needs and seamless integration with existing infrastructure.
- ∗ Implemented **advanced data preprocessing techniques and performance optimization**, reducing data processing time by **30%** and enabling real-time demand predictions.
- ∗ Built a **responsive web application** using **HTML, CSS, and JavaScript** to visualize forecasts, improving stakeholder decision-making speed by 25%.

YouTube Spam Comment Detection | *Python, Git, Flask, Machine Learning, Google Colab,*
- ∗ Trained a **Multinomial Naive Bayes classifier** on a labeled dataset using **Google Colab**, achieving **96% accuracy** in identifying spam comments. Implemented algorithm for text feature extraction and optimized the model for real-time predictions.
- ∗ Developed a fully functional **web application using Python and Flask**, integrating a machine learning model to detect spam comments on YouTube. Designed a clean and intuitive **front-end interface** using HTML and CSS for seamless user interaction.
- ∗ Utilized **Git for version control and collaboration**, ensuring efficient project management and code quality. Deployed the application with a user-friendly interface, allowing users to input comments and receive instant spam detection results.

PixelArena| *JavaScript, Unity, Vscode*
- ∗ Built an interactive multi-game website featuring Tic-Tac-Toe, Memory Match, tencies, and Rock-Paper-Scissors using **JavaScript**, HTML, and CSS, with real-time gameplay and dynamic updates.
- ∗ Designed a responsive, visually appealing UI with **smooth animations**, custom themes, and gamified elements like leaderboards and **progress tracking using local storage**.
- ∗ Enhanced user engagement with sound effects, score tracking, and **intuitive navigation**, showcasing strong front-end development and **creative problem-solving skills**.

Technical Skills

Programming Languages: Python, Java, JavaScript, C#, SQL, Java, HTML, CSS, C, C++
Development & Design Tools: PHP, React.js, Angular, Unity (C#), Godot (GDScript), Physics-based Interactions, Real-time Animations, Figma, Adobe XD, Adobe Illustrator, Inkscape, Procreate, Adobe Photoshop, GIMP, Canva.
Databases/Cloud/Developer Tools: SQL, MySQL, GitHub, Git, Google Colab.
Frameworks: Website Development, Visual Content Creation, User Interface (UI) Design, User Experience(UX) Design, Machine Learning(ML), Artificial Intelligence (AI).
Interpersonal Skills: Problem solving, communication skills, attention to detail,continuous learning, organizational skills, teamwork, Adaptability, skill development, time management, project plans.

Education

Sacred Heart University   Aug 2023 — Dec 2024
Masters in **Computer Science**   *Connecticut, USA*

MLR Institute of Technology   Aug 2019 — July 2023
Bachelor's in **Computer Science and Engineering**   *Hyderabad, India*