YASH SHARMA

Los Angeles, CA. Open to relocation | (323) 620-3874 | yashshar@usc.edu | linkedin.com/in/yashs662/ | github.com/yashs662

EDUCATION

University of Southern California August 2023 - May 2025
Master of Science
- Computer Science (Artificial Intelligence)
- Courses: Machine Learning, Foundations of Artificial Intelligence, Analysis of Algorithms, Applied Natural Language Processing, Security Systems, Game Engine Development

EXPERIENCE

Full Stack Developer, Music Integration May 2024 - July 2024
Kintsugi Global, Inc, Los Angeles, CA
- Created and optimized the front end for Kintsugi Global's music integration platform, focusing on enhancing user experience and interface usability
- Influenced the project architecture, facilitating effective integration between backend and frontend components spanning across **8** projects
- Produced thorough design documentation and worked collaboratively across **3** teams to drive project success and system efficiency

Member of Technical Staff, Software Developer Intern September 2021 - February 2023
SecOps Solution, New Castle, DE
- Developed a proprietary risk assessment Machine Learning model from scratch with **89%** Accuracy
- Designed and developed over **95%** of a production-ready command line interface for the company's flagship product to be used offline inside secure closed networks
- Conducted Full Stack development responsibilities for business requirements and collaborated with customers directly
- Investigated system issues and implemented resolutions resulting in over **60%** speedup in Backend API responses
- Mentored **4** new hires to get up to speed with product stack and workflows

SKILLS & CERTIFICATIONS

- Programming Languages: **Rust**, Python, Go (golang), Typescript, JavaScript, C, C++, C#, SQL, Lua, Kotlin, HTML, CSS
- Database: Sqlite3, MongoDB, Supabase, Redis, Firebase, PostgreSQL, MySQL, DynamoDB, Apache Hadoop
- Technologies: Git, React, Svelte, Node.js, Linux, OpenCV, Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, Tensorflow, Pytorch, Docker, Nginx, REST APIs, NumPy, Pandas, Kubernetes, Angular, Lambda, Jenkins, SciPy
- Other Skills: Agile, CI/CD, Artificial Intelligence, Machine Learning, Deep Learning, DevOps, Jira, JSON, JWT, Data structures, Algorithms, SDLC, Shell Scripting, Apache Spark, Tableau, TCP, UDP, Unit Testing, Vulnerability assessment, microservices, Authentication, Build automation, Command line, Data Mining, Operating systems, Performance tuning, Testing
- Soft Skills: Leadership, creativity, quick problem solving, teamwork & cooperation, attention to detail, time management, communication skills, adaptability, innovation, Presentation skills, Project coordination, Supervising experience
- Certifications: My Portfolio

ACADEMIC PROJECTS

Rust-Kanban - GitHub
- Utilized the Rust programming language to construct a Kanban board for terminals with cloud-save functionality
- Devised a robust and expandable architecture for easy maintainability for other open-source contributors. Currently, **173** stars are on GitHub, and over 2**1,300** downloads are on crates.io!
- Built an easy-to-use terminal user interface (TUI) with animations, with an average render below **400 μs** (microseconds)

3D Cellular Automata Simulation - GitHub
- Created a 3D Cellular Automata simulation using Rust, with custom graphics and simulation code, demonstrating proficiency in low-level programming and advanced algorithm design
- Achieved high performance by optimizing the simulation to run approximately **500,000** instances at **60 FPS** on the CPU, highlighting skills in computational efficiency and performance tuning
- Working on a GPU compute shader to achieve a **10x** increase in processing speed and scalability, aiming to handle up to **1 million** instances