YASH SHARMA

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EDUCATION

University of Southern California August 2023 - May 2025
Master of Science
- Computer Science (Artificial Intelligence)

Thakur College of Engineering and Technology August 2019 - May 2023
Bachelor of Engineering
- Computer Engineering
- GPA: 3.8 / 4.0

EXPERIENCE

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

- 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 API's, 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
- Certifications: https://portfolio-yashs662.vercel.app/home#Certificates
- Soft Skills: Leadership, creativity, quick problem solving, teamwork & cooperation, attention to detail, time management, communication skills, adaptability, innovation, Presentation skills, Project coordination, Supervising experience

ACADEMIC PROJECTS

Open Source Project owner, Rust-Kanban, Mumbai, India June 2023 - Present
- Utilized the Rust programming language to build a Kanban board for the terminal with cloud-save functionality
- Devised a robust and expandable architecture for easy maintainability for other open-source contributors. Currently having 88 stars on GitHub and over 8,200 downloads on crates.io!
- Built an easy-to-use terminal user interface (TUI) with animations, with an average render below 400 microseconds

Project Leader, iMonitor, Mumbai, India August 2022 - April 2023
- Devised a project aimed at improving existing CCTV systems leveraging temporal analysis in a modular one-size-fits-all format, Using Computer Vision and Machine learning to achieve 84% accuracy in real-world scenarios
- Orchestrated horizontal scaling capabilities with Docker-compose to allow for large-scale operations
- Fine-tuned a machine learning model to 84% accuracy, along with designing and creating a user interface for the product

ACCOMPLISHMENTS

- Google Developer Student Club's Cloud Lead at Thakur College of Engineering and Technology (GDSC-TCET) - organized and led cloud infrastructure training sessions for 150+ students over a 30-day period On campus, helped raise awareness about growth and migration toward cloud technologies
- CSI (Computer Society of India) - TCET: led as a graphic designer and promoter for creating awareness about educational events on campus (Sep 2020 - Dec 2020)
- TEDxTCET: Worked as a graphic designer, promoter, and executor of sponsored events, and worked closely with speakers to refine speeches as per guidelines at an individually organized TED event (Jul 2020 - Sep 2020)
- Promoter and graphic designer for college magazine Quasar focused on articles in technical fields (January 2021)
- Acted as Captain of the Smart India Hackathon Team

PUBLICATIONS

- One Framework to Detect Them All: A Cross-Industry Object Detection System - TIJER Volume 10 Issue 4, April-2023, Paper ID - TIJER2304050,