

# YASH SHARMA

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## EDUCATION

### University of Southern California

August 2023-Present

- **Master of Science** - Computer Science with specialization in 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, Engineering

September 2021-February 2023

SecOps Solution, New Castle, DE

- Developed a proprietary risk assessment Machine Learning model from scratch with 87% Accuracy
- Designed and developed over 90% of a production-ready command line interface for 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, Typescript, Javascript, C, C++, C#
- Database: Sqlite3, MongoDB, Supabase, Redis, Firebase, PostgreSQL, MySQL
- Technologies: Git, React, Svelte, Node.js, Linux, OpenCV, Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, Tensorflow, Pytorch, Docker, Nginx, HTTP, CSS, REST API's, NumPy, Pandas, Kubernetes
- Certifications: <https://portfolio-yashs662.vercel.app/certificates>
- Soft Skills: Leadership, creativity, quick problem solving, teamwork & cooperation, attention to detail, time management, communication skills, adaptability
- Languages: English, Hindi

## 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 the Captain of Smart India Hackathon Team

## 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 20 stars on Github and growing!
- Built an easy-to-use terminal user interface (TUI) with animations, with an average render below 500ms

### 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

## PUBLICATIONS

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