

SHUBHAM SINGH

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Pune, Maharashtra - 411021, India

OBJECTIVE

Final-year B.Tech Computer Science student at Symbiosis Institute of Technology with strong expertise in full-stack development, AI/ML, and IoT systems. Proficient in React.js, Node.js, Python, C++, and cloud deployment using AWS and Firebase. Built multiple real-world projects involving image generation, object detection, and safety systems. Recently developed VAPSI, a missing person detection platform using facial recognition and text-based matching with MiniLM v6, integrating both computer vision and LLMs, and deployed on AWS EC2. Passionate about developing scalable, responsive, and impactful software applications.

EDUCATION

- **Symbiosis Institute of Technology (SIT)** Sep 2022 - Sep 2026
Bachelor of Technology - Computer Science
◦ Grade: 6.7/10 (Till 6th semester) Pune, India
- **Prestige Public School** Jun 2020 - May 2022
High School Diploma
◦ Grade: 9/10 Indore, India
- **Prestige Public School** Jun 2018 - Jun 2020
Middle School Diploma
◦ Grade: 9.1/10 Indore, India

PROJECTS

- **VAPSI – Missing Person Detection System**
Python, Flask, Deep Learning, OpenCV, MongoDB, HTML/CSS, JavaScript, AWS EC2
Apr 2024 – Present
 - Designed a facial recognition system to identify missing persons from user-submitted images.
 - Integrated an LLM to enable semantic matching between user queries and facial metadata.
 - Built a stacked model combining facial feature extraction and text similarity for improved accuracy.
 - Implemented role-based access to restrict profile viewing to verified matches, ensuring ethical compliance.
- **AI Image Generator – MERN + DALL·E**
MongoDB, Express.js, React.js, Node.js, OpenAI API, Firebase
Jan 2024 – Mar 2024
 - Built a full-stack app allowing users to generate AI images from text prompts via OpenAI DALL·E.
 - Implemented Firebase-based authentication and cloud storage for generated images.
 - Optimized prompt submission with asynchronous API handling for smoother user experience.
- **Real-Time Object Detection – YOLOv5**
Python, OpenCV, YOLOv5
June 2024 – July 2024
 - Trained YOLOv5 on a custom dataset for real-time object detection tasks.
 - Designed a UI dashboard to visualize detections and monitor accuracy over time.
- **Math-Based Asteroid Game: An Interactive Game for Learning Math**
Python, Pygame
Sept 2024 – Nov 2024
 - Created a math-based arcade game where players solve problems to destroy asteroids.
 - Developed adaptive difficulty and dynamic scoring to enhance player engagement and learning.
- **IoT-Based Alcohol Detection System**
NodeMCU, MQ-3 Sensor, Arduino, C++
Sept 2023 – Dec 2023
 - Developed a vehicle-mounted breath detection system to prevent drunk driving.
 - Integrated an ignition lock and mobile alert system for real-time intervention.

EXPERIENCE

<div><div>• ISKCON (Service-Learning Project) [🌐]</div><div>Technical Contributor</div><div><div>◦ Developed SCORM-compliant e-learning modules, improving digital accessibility.</div><div>◦ Built a math-based asteroid game for interactive learning.</div><div>◦ Transcribed and digitized educational materials for streamlined documentation.</div></div></div> <td><div>July 2024 - Dec 2024</div><div>Pune, India</div></td>	<div>July 2024 - Dec 2024</div> <div>Pune, India</div>
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SKILLS

<div><div>• Programming Languages:</div>Python, Java, C, C++, JavaScript, SQL</div> <div><div>• Web Technologies:</div>HTML, CSS, React.js, Node.js</div> <div><div>• Database Systems:</div>MongoDB, MySQL, PostgreSQL</div> <div><div>• Cloud Technologies:</div>AWS, Google Cloud</div> <div><div>• Data Science & ML:</div>TensorFlow, PyTorch,, Pandas, NumPy, OpenCV</div> <div><div>• DevOps & Version Control:</div>Git, GitHub, Docker, CI/CD, Kubernetes</div> <div><div>• Other Tools:</div>Power BI, Tableau, Arduino, Raspberry Pi,</div>	
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LEADERSHIP EXPERIENCE

<div><div>• E-Learning Content Developer</div><div>Aug 2024 - Nov 2024</div></div>	ISKCON (Service-Learning Project)
<div><div>• Valorant Event Lead</div><div>Jan 2025 - Present</div></div>	Symbiosis Institute of Technology

VOLUNTEER EXPERIENCE

<div><div>• Support Volunteer for Differently Abled Persons</div><div>Dec 2024 - Jan 2025</div></div>	Local Community Outreach Program
<div><div>• Rath Yatra Volunteer</div><div>Sep 2024 - Sep 2024</div></div>	ISKCON

CERTIFICATIONS

<div><div>• Certification in Design Thinking</div></div>	Jan 2025
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ADDITIONAL INFORMATION

<div>Languages: English (Fluent), Hindi (Native), German (Basic)</div> <div>Interests: Software Development, Machine Learning, Cybersecurity, Esports</div>	
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