

# Samarth Dumasia

Surat, Gujarat, India

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## Professional Summary

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Computer Science Engineering student with expertise in Internet of Things (IoT), web development, and software engineering. Proven leadership experience in project management and team collaboration. Proficient in Java, JavaScript, HTML, CSS, React, Node.js, Express.js, MongoDB, and cloud computing platforms including Google Cloud Platform (GCP) and Amazon Web Services (AWS). Experience with Android development, UI/UX design, and agile development methodologies.

## Education

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Bachelor of Technology (B.Tech) in Computer Science Engineering  
P.P. Savani University, Surat, Gujarat, India

Expected 2026  
CGPA: 7.07/10

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Database Management Systems, Software Engineering, Computer Networks, Operating Systems, Internet Of Things

## Technical Skills

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Programming Languages: C, C++, Python, JavaScript, HTML, CSS  
Frontend Technologies: React, Tailwind CSS, HTML5, Responsive Design  
Database Technologies: MySQL, Database Management Systems  
Cloud Platforms: Google Cloud Platform (GCP), Amazon Web Services (AWS)  
Development Tools: Android Studio, Git, GitHub, Figma, Unreal Engine and Blender (used once)  
Version Control: Git, GitHub  
AR/VR: MyWebAR, SketchFab, Unreal Engine, Blender  
IoT (Internet of Things): Arduino, NodeMCU, Raspberry Pi, and sensors.  
Specializations: Internet of Things (IoT), Front-end, Web Development, UI/UX Design

## Projects

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### Eyes On Wheels - IoT Drowsiness Detection System

| IoT, Sensors, Embedded Systems, Machine Learning

- Designed and led the development of an IoT-based drowsiness detection system to address real-world road safety challenges caused by driver fatigue.
- Integrated multiple sensors and embedded hardware with machine learning and computer vision to enable real-time detection and smart alert mechanisms.
- aimed at enhancing road safety achieving potential accident reduction through innovative detection mechanisms and alert systems
- Managed the end-to-end project lifecycle — from ideation, prototyping, and team coordination to testing and stakeholder presentations.
- Successfully secured INR 35,000 grant under Student Startup and Innovation Policy (SSIP) for project development

### Mute's Speaker - Sign Language Translation System | IoT, gestures-to-text, ML

- Engineered IoT project enabling mute individuals to communicate through real-time hand sign recognition
- Developed gesture recognition system using computer vision algorithms translating hand signs to text-to-speech
- Improved communication efficiency for individuals with speech disabilities through accessible technology

### Smart Home Monitoring System – IoT Automation Project | Arduino IoT Cloud, Sensors, MQTT, Embedded Systems

- Designed and developed an IoT-based home automation system enabling remote monitoring and control of lighting, gas/smoke sensors, and voice-activated devices.
- Integrated Arduino IoT Cloud for real-time data visualization and automation scheduling, improving convenience and energy efficiency.
- Implemented voice control using Alexa/Google Assistant via MQTT(using arduino IOT Cloud), ensuring seamless and hands-free interaction.
- Led project planning, hardware-software integration, and testing phases, ensuring reliability and scalability for future smart home expansions.

### Inventory Management System Website | React, Tailwind CSS, Express.js, MongoDB, Node.js

- Built comprehensive full-stack inventory management web application using React and Tailwind CSS for frontend
- Developed robust RESTful APIs using Express.js and Node.js for backend functionality and data processing
- Implemented MongoDB database with optimized schemas for efficient data storage, retrieval, and management
- Created responsive user interface with modern design principles, improving user experience.

## Academic Experience

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### IoT Tech Lead

2024 – 2025

Google Development Group (GDG), P.P. Savani University

Surat, Gujarat

- Lead and mentor 10+ peers in Internet of Things (IoT) development projects and technical initiatives
- Organize workshops and technical sessions on IoT technologies, sensors, and automation systems
- Collaborate with team members to develop innovative IoT solutions and smart device applications
- Provide technical guidance on embedded systems, microcontrollers, and IoT protocols

### Project Team Leader | Eyes On Wheels Project

- Led cross-functional team of 5 members in developing IoT-based safety solution
- Managed project timeline, resource allocation, and stakeholder communication
- Coordinated with university administration and secured funding of INR 35,000

### Active Member | Entrepreneur Business Club (EBC), P.P. Savani University

- Actively contributing to 2 startup projects focused on technology innovation
- Collaborate with entrepreneurial teams on business development and technical implementation
- Participate in networking events and business development workshops

## Certifications and Achievements

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Google Cloud Platform (GCP) Certification – Earned verified badges on Credly

AmazonWebServices(AWS)Certification–EarnedverifiedbadgesonCredly

IoT (Internet of Things) Wireless and Cloud Computing – Yonsei University on Coursera

Agile with Atlassian Jira – Atlassian on Coursera

Python for Everybody – University of Michigan on Coursera

Work Smarter, Not Harder: Time Management for Personal and Professional Productivity – Coursera

Student Startup and Innovation Policy (SSIP) Grant Recipient – INR 35,000

## Additional Skills

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Soft Skills: Leadership, Team Collaboration, Public Speaking, Project Management, Problem Solving, Fast Learning, Communication, Mentoring

Design Skills: UI/UX Design, Graphic Design, Video Editing, Web Design, Photoshop, Figma, Blender

Interests: Technology Innovation, Game Mechanics Analysis, Continuous Learning, Professional Networking, Problem Solving Projects



Personal portfolio website