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Profile Summary

I am a committed computer engineering student with expertise in cloud computing, electrical prototyping, DevOps, and full-stack development. I've successfully built and implemented large-scale projects, demonstrating proficiency in various programming languages and technologies. My experience includes working with AWS, Azure, and GCP, and gaining practical knowledge from my internship at Sakura Bio Tech (IIT Bombay). I have a strong interest in AI and blockchain, with accomplishments in IoT solutions, hackathons, and rapid prototyping.

- thrive on turning ideas into reality and continuously seek to create impactful, innovative solutions.
- I excel in leading tech teams, ensuring collaboration and driving projects to successful outcomes.
- I love to explore new concepts and create meaningful experiences, both online and physically.
- I'm always learning and staying innovative.

PROJECTS

Portfolio Website (<https://gamerboisoap.in>)

- Web Development Technologies: Utilized HTML and **Tailwind** to create and design the website.
- Backend Framework: Implemented server-side functionalities using Node.js.
- Learned how to get **SSL** from Cloudflare and connect **domain**
- **Hosting and Deployment**: Deployed the website on my own **VPS** with **Apache** server configuration.

MongoDB website (<https://p1.gamerboisoap.in/>)

- Database Management: Used **MongoDB** as the database system for managing and storing data
- Backend Integration: Integrated **MongoDB** with Frontend to handle data operations and queries.

Linux Dashboard website (<https://osy.gamerboisoap.in/>)

- System Monitoring: Provides real-time monitoring of server performance metrics, including CPU usage, memory, disk space, and network activity.
- Data Collection and Display: Gathers system metrics from the server and displays them in an organized dashboard interface.
- Backend Integration: Integrated Linux-based monitoring scripts with the frontend to display live data, facilitating easy and quick insights into server health..

Online Code Compiler (<https://codezone.gamerboisoap.in/codezone>)

- **Multi-Language Support**: Enables users to compile and execute code in various programming languages, including Python, C, and C++.
- **Real-Time Compilation**: Provides instant feedback by running code submissions on the server and returning results directly to the user.
- **Backend Integration**: Utilizes **Java Servlets** with the CodeX API to handle code execution securely and efficiently, displaying output in the frontend interface.

- **User-Friendly Interface:** Offers a simple, organized layout for writing, compiling, and testing code, making it accessible for users of all levels.

Irrigation control and soil monitoring system using solar panel power 2 X (Hackathon Winner Topic)

- **Comprehensive System Design:** Developed a full irrigation control and soil monitoring system using **ESP8266** for connectivity, soil moisture sensors for data collection, and a custom **mesh network** for reliable and extended communication.
- **Power Management:** Integrated a **Battery Management System (BMS)** with solar panel power to ensure efficient energy storage and distribution.
- **System Integration:** Combined ESP8266, soil sensors, a custom mesh network, solar power, and a robust battery system to create a sustainable and autonomous irrigation solution.

Property websites front end connecting to Database

- **Database Integration:** Connected a property website to **MySQL** for dynamic data management and retrieval.
- **Web Hosting:** Successfully hosted the integrated property website on your own **server (VPS)** with **domain**.
- **Microproject Contribution:** Collaborated on a DBMS microproject by incorporating backend database functionalities and ensuring smooth deployment.

Basic Smart Light iot Project

- **IoT Integration:** Used **ESP8266** and **Alexa** to enable remote control of the light, allowing it to be turned on or off via voice commands.

Commission work for website

- **Database Integration:** Utilized a database to manage and store data effectively.
- **Functionality Enhancement:** Implemented coding to add and enhance various functions and features on the website
 - <https://www.mumbaiseaswimmers.com/indiaswimathonlist>
 - <https://www.triathlonmadeeasy.com/events>

WORK EXPERIENCES

Internship At Sakura Bio Tech

(3 March-Present)

- **Developed BOM List:** Created and managed the Bill of Materials for various projects.
- **Battery System Design:** Worked on designing and implementing battery systems for different applications.
- **Lab Visits:** Participated in visits to labs at **IIT Bombay** and **VJTI**, gaining hands-on experience and insights.
- **Startup Incubation:** Contributed to the startup's incubation at VJTI, supporting its growth and development.

Industry-Grade Hydroponics Kit Sensors

- **Sensor Development:** Designed and implemented high-precision sensors tailored for hydroponic systems, ensuring reliable monitoring of key parameters for plant health.
- **Quality and Calibration:** Focused on industry-grade accuracy and calibration to provide stable and accurate readings over time.
- **Data Integration:** Integrated sensor data with control systems to facilitate automated adjustments, optimizing conditions for plant growth.
- **Testing and Validation:** Conducted rigorous testing to ensure sensor durability and performance in various hydroponic environments..

ACHIEVEMENTS

Winner Of “CRACK IT IF U CAN” (sem 2)

- **First Place:** Achieved first place in a **Capture The Flag (CTF)** event, showcasing skills in problem-solving and cybersecurity challenges.

Winner VP Hackathon (sem 4)

- **First Place:** Secured first place in **the VP Hackathon** with the project on irrigation control and soil monitoring using solar panel power.

Winner VP Hackathon (sem 5)

- **First Place:** Secured first place in **the VP Hackathon** with the project on irrigation control and soil monitoring using solar panel power.

EDUCATION

SKILLS

- SWIFT
- NODE.JS
- OBJ-C
- C
- C++
- JAVA
- MYSQL
- MONGODB
- EMBEDDED C
- PYTHON
- VB.NET
- TAILWIND
- CSS
- HTML
- CLOUDFLARE
- AWS
- GCP
- OLLMA
- CLOUD COMPUTING
- UBUNTU
- KALI LINUX
- NGINX
- APACHE2
- SOLDERING
- ARDUINO
- RASPBERRY PI
- BATTERY DESIGN
- 3D PRINTING
- PYTORCH
- TENSORFLOW
- NETWORKING
- ARCH LINUX
- POWERSHELL
- BLENDER
- PHOTOSHOP
- WIRESHARK

Software Development

- Experience in Full-Stack Development Using Backend and Frontend Languages. (<https://gamerboisoap.in>)
- Developed and designed large-scale projects using front-end and back-end technologies, syncing server-side logic with intuitive user interfaces.
- proficiency in backend technologies, delivering scalable server solutions, while maintaining the ability support xfrontend.

Swift, Node.Js, Obj-C, C, C++, Java, MySql, MongoDB, Embedded C, Python, VB.net, Tailwind

DevOps, Linux, and Cloud Computing

- Experience with cloud platforms such as AWS, Azure, and Google Cloud Platform (GCP).
- Skilled in deploying and managing virtual machines, containers, and serverless applications in the cloud.
- Proficient in SSH for secure remote access, FTP for file transfers, SSL for securing communications, and domain management for DNS configuration and apache2 for ports and routing.

CLOUDFLARE,AWS,GCP,CLOUD COMPUTING,LINUX,NGINX,APACHE2

Electrical Prototyping and Design

- Soldering and electrical prototyping experience.
- Arduino, Raspberry Pi and Esp boards prototyping experience (through personal and employment related projects).
- Skilled in battery design, optimizing power management and efficiency for embedded systems and IoT devices.
- Rapid Prototyping with 3D printing.

Soldering, Arduino, Raspberry Pi, Battery Design,3D Printing

AI and Blockchain

- Experimenting with PyTorch and TensorFlow.
- Knowledgeable in mining, Ethereum (ETH), and Bitcoin (BTC) and Non-Fungible Token(NFT).

PyTorch, TensorFlow