

CHRISTIAN JAKE SUPNET

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Adaptable and detail-oriented Computer Engineer with hands-on experience in, **Machine Learning, backend development, and API integration**. Strong foundation in **full-stack web development, machine learning, database management, and IOT**, Known for innovation, problem-solving, and collaboration. Passionate about creating efficient and scalable software solutions.

EDUCATION

NATIONAL UNIVERSITY BULACAN

Bachelor of Science in Computer Engineering

Baliwag Bulacan

2020-2024

COLEGIO DE CALUMPIT INC

Accountancy, Business, and Management

Calumpit Bulacanam

2018-2020

TECHNICAL SKILLS

- **Web & Mobile Development:** ReactJS, React Native, Node.js (Express.js), Python (FastAPI)
- **Programming Languages:** Python, JavaScript, C++
- **Tools & Technologies:** Git, WebSocket, MQTT, Google Cloud, Docker
- **Hosting & Deployment** Caddy, Vercel, Netlify, Railway
- **AI & Machine Learning:** DeepFace, OpenCV, YOLO, TensorFlow/ Keras
- **Database Management:** MySQL, MongoDB, Firebase

PROJECTS & EXPERIENCE

Face Recognition Attendance System (*Freelance Project*)

- Developed a full attendance tracking system using Python DeepFace for facial recognition, RFID authentication, and stationary face recognition device connected to a backend.
- Built a ReactJS frontend for attendance management and an Express.js/MySQL backend API to handle real-time data processing and secure authentication.
- Ensured smooth system performance by optimizing API responses and database queries.

Trash Segregation Using Machine Learning (*Freelance Project*)

- Designed an AI-powered trash segregation system to classify waste materials using machine learning models.
- Trained and optimized the model for improved accuracy in detecting and categorizing waste types.

A handwritten signature in black ink, appearing to read 'Supnet' with a stylized flourish at the end.

Christian Jake Supnet

Applicant

POS & Inventory System (Academic Project)

- Built a POS and inventory system using Node.js, Express.js, and MySQL with a secure JWT authentication system.
- Designed an intuitive user interface with ReactJS for managing sales, inventory, and user access.

IoT Pet Feeder (Capstone Project)

- Developed an IoT-based pet feeder with automated scheduling, manual control via a React Native app, and real-time monitoring using a camera and weight sensors.
- Integrated microcontrollers and sensor data processing to ensure precise portion control and feeding schedules.

Cemetery Mapping Web Application (Freelance Project)

- Designed and developed a web-based cemetery mapping system using ReactJS and Node.js to allow users to search for graves and visualize locations with interactive markers.
- Integrated Google Maps API for enhanced user experience, enabling virtual navigation of the cemetery.
- Developed a MySQL backend for storing and managing grave records efficiently.

E-Trucking Real-Time GPS Tracking System (Freelance Project)

- Developed a real-time GPS tracking system for logistics trucks, enabling location updates to be sent continuously to a backend server.
- Built a mobile-responsive ReactJS frontend and React Native mobile app for clients to monitor vehicle locations and trip history.
- Created a backend API using Express.js and MySQL to store tracking logs and manage user roles and access control.

Real-Time Location Sharing App (Personal Project | Ongoing)

- Developing a mobile application for real-time location sharing like Life360 using React Native, MQTT, Express.js, and MySQL.
- Implements group-based location tracking, allowing users to create/join groups and share locations with friends securely.
- Designed offline data storage and sync functionality to minimize backend requests and improve performance.

ADDITIONAL SKILLS

- **API Development:** Experienced in designing, building, and testing RESTful APIs using FastAPI (Python) and Express.js (Node.js) following MVC architecture.
- **Software Development:** Strong problem-solving skills for debugging, testing, and optimization
- **Version Control:** Proficient in Git and collaborative development
- **Soft Skills:** Effective communicator, problem solver, experienced in collaborative project execution and product development.

Christian Jake Supnet
Applicant