

# JOHN PAULO S. PATAYON

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<https://jpsp-portfolio.vercel.app/>

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## SUMMARY

Full-stack developer specializing in responsive web applications and automation tools, with a strong foundation in network design, embedded systems, and system security. Passionate about building efficient, secure solutions that streamline IT workflows.

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## EXPERIENCE

### Network and Systems Support Intern

March 2026 - Present

#### Clay Technologies

- Company required reliable LAN performance and efficient system support for daily operations.
- Assist in maintaining network stability, system setup, and troubleshooting issues.
- Configured network devices, supported LAN operations, performed system installations, and managed bandwidth and backup processes.
- Improved network reliability minimized downtime through faster issue resolution and ensured data integrity with consistent backup systems.

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## SKILLS

**Languages** – Python, JavaScript, TypeScript, C++, SQL, Java

**Frameworks & Libraries** – React.js, Tailwind CSS, Express.js, Axios, Vite, React Query, MediaPipe, TensorFlow Lite, OpenCV, MediaPipe, NumPy

**Tools** – Git, GitHub, VS Code, PyCharm, Arduino IDE, Circuit Designer, Cisco Packet Tracer, Raspberry Pi, Arduino, ESP32

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## PROJECTS

### Wedding RSVP Website

- Manual RSVP tracking was inefficient and prone to errors for event management.
- Build a full-stack system to streamline RSVP collection and guest management.
- Enabled real-time RSVP tracking, simplified guest filtering and management, and improved data accuracy and accessibility.

### SignoSalin: A Handheld Real-Time Translator for Filipino Sign Language Using Computer Vision

- Communication gaps exist between deaf individuals and non-signers in everyday interactions.
- Create a portable system that translates FSL gestures into readable text and voice into animated hand sign language in real time.
- Implemented computer vision and machine learning models to detect and interpret hand gestures via a camera-based system.
- Provided an accessible communication aid that translates gestures instantly, improving interaction efficiency and inclusivity.

### GLUCS: Gas Leak Detection and Safety System with Automated Response

- Gas leaks pose serious safety risks in residential and industrial environments.
- Design an automated system to detect leaks and respond immediately.
- Built an IoT-based solution with gas sensors, automated exhaust activation, valve shutdown, and real-time alert system.
- Reduced risk of accidents through rapid detection and response, with remote monitoring improving safety awareness.

### Solar Seeker

- Efficient solar energy capture requires optimal alignment with light sources.
- Develop a system that automatically tracks and aligns with light.
- Designed an Arduino-based system using photoresistors and a servo motor to detect and follow light direction.
- Demonstrated improved light alignment accuracy and foundational robotics control concepts for solar applications.

### Personal Portfolio

- Needed a professional platform to showcase projects and technical skills.
- Build a personal portfolio website with modern design and usability.
- Designed and developed a responsive website with optimized UI/UX, project showcases, and deployment.
- Created a centralized online presence that effectively presents skills and projects to recruiters and clients.

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## EDUCATION

**Bachelor of Science in Computer Engineering**

2022 – Present

National University – Dasmariñas