John Rafael L. Jocson

Laguna, Philippines| johnrafaeljocsonbsn@gmail.com| +639186269784

EDUCATION

Mapua Malayan Colleges Laguna **Cabuyao, Laguna**
Bachelor of Science in Computer Engineering *2020-2024*

- **Awards/Honors:** Latin Honors, Cum Laude. Presidents lister AY 2020-2023, Deans Lister AY 2020-2024

WORK EXPERIENCE

Playbook Sports **Hoboken, NJ (Remote)**
Associate Developer *Jan 2025 - Current*

- Create internal automation solutions and external webapps using n8n to provide AI/LLM functions to most apps
- Used Django framework to handle a client's request for a standalone scheduler/drafter synced to our base SAAS
- Made lead generation that runs constantly in the background using n8n to prospect for potential B2B customers
- Built backend for software wide chatbot made with RAG agent and Vector store database to retrieve FAQs

Pixel8 Web Solutions and Consultancy
Remote
Backend Development Intern *2024*

- Developing backend systems using REST API on different web frameworks (Django, Laravel, Ruby on Rails)
- Created backend API for projects such as To-Do list, Login/Authentication and remade it on different frameworks
- Become team leader for fellow interns during my stay and acted as project manager for the team

Projects And Publications

Leaf Disease detection with CNN and data center management **ICCAE**
Sole Developer *20-22 March 2025*

- Leaf disease detection using an Image classification convolutional neural network model
- Dashboard backend app made with Django. Contains all information about the field diseases/pests
- Camera app runs on Raspberry pi 5 to automatically send data to server running in debian that hosts the dashboard
- Uses both IOT and web development concepts to ensure smooth operation between on field sensors and database

Implementation of a Single Cycle Datapath for the Design of a Low-process Control in XC3S500E **ICCAE**
Co-Developer *14-16 March 2024*

- A Proof of concept in running a RISC-V Architecture on an FPGA board for low-process control
- Worked on some of the operators like the multiplexer and adder using verilog
- Also worked on documentation and output verification to see if all operations follow the expected output

IoT-Based Monitoring control system for increase in seed germination rate of plants **Thesis**
Co-Developer *2024*

- Automated moisture, humidity, light, and temperature control using Arduino sensors to facilitate germination
- Made with Arduino to control the sensors and variable control and ESP32 to handle network operations
- Mainly worked on the sensor/device control on arduino and setting up webserver for the dashboard

SKILLS & INTERESTS

Programming language: Python, C#, Verilog, HTML, CSS, JavaScript, Java, Arduino, Bash Scripting
Tools: n8n, Hubspot, Salesforce, Git, Github, Heroku, Hasura, Google Cloud, Supabase, Confluence, Jira, Hostinger
Stack: Django, Astro, Tailwind, Bootstrap
Database: MySQL, PostgreSQL, Mariadb, SQLite, Mongodb, GraphQL
Languages: English (Fluent), Tagalog (Native)
Certifications: Comptia ITF+
References: agdsabino@gmail.com, akcspark@gmail.com, johnvincentespinosa1@gmail.com