BYRON DALE O. FRANCO

Computer Engineering Graduate

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👤 Objective

Computer Engineering graduate with hands-on experience in backend development, embedded systems, and IoT projects. Proficient in Ruby on Rails, C++, and Python. Adept at building RESTful APIs, integrating hardware sensors, and deploying cloud-connected applications. Passionate about applying technical expertise to real-world problems in software and embedded engineering roles.

Education

- **Carlos Hilado Memorial State University - Alijis**
  Bachelor of Science in Computer Engineering
  Completed in 2025

- **St. John's institute**
  Science, Technology, Engineering, and Mathematics (STEM)
  Completed in 2021

  Primary to Secondary School, Completed 2019

Certifications & Seminars

- **Civil Service Commission Examination (2024) Professional Passer**
- **Google Devfest 2023**
- **USLS ISACA Student Group Bacolod Conference 2024**
- **Emerging Technology 2023 Carlos Hilado Memorial State University-Alijis**

Academic Achievements

- **Institute of Computer Engineers of the Philippines Member** (2021-Present)
- **Dean's Lister** (2022-2023)
- **Dean's Lister** (2021 -2022)
- **Best Paper Gold Award - Thesis**

💼 Experience

Backend Developer Intern

ROOTLABS I.T. SERVICES (Feb. 2025 - Apr. 2025)

- Built and maintained RESTful APIs using Ruby on Rails
- Implemented JWT authentication to secure user sessions
- Managed and queried relational databases using PostgreSQL
- Used Postman to test and debug backend endpoints
- Assisted in frontend development tasks using HTML and CSS
- Collaborated using Git and GitHub for version control

📖 Projects

Intelligent Plant Health Monitoring with Nutrient Recommendation System

- Collected NPK, EC, and pH sensor data via RS485 Modbus using Arduino R4 WiFi
- Integrated sensor data and plant images with OpenAI API to generate nutrient recommendations
- Developed and deployed a Rails-based web server with mobile APK conversion using Loophole
- Delivered a portable, field-ready solution for farmers to monitor plant health

Skills

- **Programming Languages:** Ruby on Rails, Python, C++
- **CAD & Design Software:** SolidWorks (3D modeling, mechanical design, prototyping)
- **Tools & Technologies:** Arduino, Git, Postman, PostgreSQL, HTML/CSS, Loophole, RS485 Modbus, SQL, Geographic Information System
- **Other Skills:** Microsoft Office, Circuit Analysis, Network Troubleshooting, Time Management, Multitasking
- **Soft Skills:** Communication, Adaptability, Problem-Solving, Teamwork, Attention to Detail, Critical Thinking

Character Reference

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