DANIEL Q. BONITO

Computer Science Student at Naga College Foundation, Inc.
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SUMMARY

Motivated and technically skilled 4th year Bachelor of Science in Computer Science student at Naga College Foundation, Inc., with hands on experience in full-stack development, machine learning, and IoT systems. Proficient in multiple programming languages and modern frameworks, with a strong passion for building innovative technology solutions. Eager to contribute to real-world IT projects through an internship or entry-level opportunity.

EDUCATION

Naga College Foundation, Inc. — Naga City, Camarines Sur
Bachelor of Science in Computer Science — SY 2023 – Present

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, PHP, C ,C++

Frameworks & Libraries: ReactJS, React Native, Flutter, Node.js, NestJS, REST APIs

Databases: MongoDB, MySQL, PostgreSQL, Oracle, Supabase, Firebase

Other: Machine Learning, IoT Systems, Git, GitHub, GitLab

PROJECTS

GoDare

Chief Technology Officer (CTO)

Mobile application that enhances tourism engagement through location-based gamification, letting users take on challenges tied to destinations, businesses, landmarks, events, and cultural experiences. Completion is verified via geolocation and image submission, awarding badges, achievements, and digital points redeemable for rewards from partner businesses. An accompanying admin platform handles challenge creation, verification and reward parameters, participant monitoring, reward distribution, and analytics driving destination discovery and supporting local businesses.

SentryMesh

Fullstack Developer

Disaster-response system that closes the "Communication Black Hole" the collapse of cellular, power, and internet infrastructure during the critical first 72 hours after a disaster. It uses an internet-independent LoRaWAN mesh of low-power nodes that run for years on battery and transmit several kilometers through dense terrain, keeping last-mile communities connected without cell towers or costly satellite phones. Its VigilantPath AI Severity Engine applies a Spatial-Temporal Graph Neural Network to predict how upstream surges will affect downstream settlements, turning raw environmental data into proactive evacuation alerts. Engineered for the rugged geography of ASEAN nations and aligned with SDG 9, 11, and 13.

CardioGen-Ensemble: A Multimodal Deep Learning Framework for Predicting Pathogenicity in Sarcomere Variants via Cardiac MRI

ML Specialist

Multimodal deep learning framework that classifies sarcomere missense variants as pathogenic or benign by fusing genomic data with cardiac MRI phenotypes across 15,502 variants from eight genes. Developed the Phase 1 Attention U-Net for automated left ventricular wall thickness extraction and the ensemble architecture fusing it with a Phase 2 XGBoost genomic classifier through a late-fusion meta-learner. Applied SMOTE to address a 19.5% pathogenic class ratio and stratified 5-fold cross-validation with protein-level grouping to prevent data leakage. The fused model achieved an AUC-ROC of 0.9902, F1-score of 0.8992, MCC of 0.8703, and 98.31% sensitivity a 35.7% F1 improvement over genomic-only baselines with 142 ms end-to-end inference and SHAP plus Grad-CAM explainability for clinical transparency.

Skills Progress Tracking and Employability

Programmer Lead

Web-based platform developed for Computer Studies students at Naga College Foundation, Inc. that tackles the growing gap between what schools teach and what employers actually need. The system allows students to track their technical and soft skills across their academic progression, map those skills against current industry requirements, and identify the gaps standing between them and employability. Faculty and administrators gain visibility into skill development trends across the program, supporting data-driven curriculum decisions that keep coursework aligned with real hiring demand.

L.E.A.P – Language Education & Advancement Program

UI/UX Lead, Backend Lead Developer

Web-based English learning system that moves away from passive, lecture-style e-learning, applying constructivist theory the idea that learners build knowledge through active experience to create an interactive environment that combines a CMS, gamification, and AI-powered conversation for real, meaningful language practice.

CarbonWatch

Frontend Developer

Smart mobile application integrated with artificial intelligence and IoT sensors to monitor and track carbon emissions in real time. It collects environmental data through connected IoT devices, processes it using machine learning models, and presents insights through a user-friendly mobile interface, enabling users to make data-driven decisions toward reducing their carbon footprint.

KEY ACHIEVEMENTS

Top 1, Luzon Cluster — National Tourism Startup Challenge (GoDare)

Top 16 Finalist — P2A ASEAN AI Hackathon (Project SentryMesh)

Finalist — 1st Naga City Mayoral Hackathon (CarbonWatch)

Finalist — Arduino Day Philippines (CarbonWatch)

Semi- Finalist — GeoSoft Retail Tech

Semi-Finalist — TecknoFest (CardioGen)