

JOHAN SANTOS

COMPUTER SCIENCE

Technological Institute of the Philippines (TIP) Q

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CAREER OBJECTIVE

To secure an internship or on-the-job training where I can apply my programming and software development skills while gaining practical industry experience.

DESIGN PROJECTS COMPLETED/ RESEARCHES

Product Management System with Point of Sale for Jewell 7 Hardware (Full-Stack)

Developed a comprehensive software solution for Jewell-7-Hardware using Python, PyQt5, matplotlib, pandas, and NumPy, featuring a modular system with functionalities for Security, Product Management, Transactions, Search, Reporting, Customer Returns, and Help. The software automated inventory tracking, sales recording, customer returns, and sales forecasting using linear regression, while utilizing SQLite for efficient and lightweight database management. Additionally, it integrated data-driven insights with analytics and visual reporting tools to support strategic decision-making.

GTNR - An Event Organization App for Campuses (Full-Stack)

Utilized Flutter for mobile app development and Firebase for backend services, enabling real-time data synchronization with features such as user and guest access with tailored functionality, event creation and management with attendance confirmation, event discovery, interactive comments, real-time chat, user posts, and customizable user profiles for a personalized experience.

NewsNet - Aggregated News Scraping, Analysis, and Visualization Tool

Developed a simple news aggregation and analysis tool using Python, PyQt5, BeautifulSoup, NetworkX, and Matplotlib, featuring web scraping, data visualization, sentiment analysis, topic modeling, and report generation. The tool scraped articles from multiple news sources with error handling and retry mechanisms and utilized NLP techniques (spaCy, Transformers) and LDA for semantic analysis, summarization, and topic modeling.

KNOWLEDGE, SKILLS AND ATTITUDE

SKILLS

Languages: C++, C#, Javascript, Python, Java, HTML, CSS

Frameworks / Libraries: Pandas, NumPy, PyQt5, spaCy, Transformers, SciKit-Learn

Databases: SQL, SQLite

Tech: VScode, GitHub, Google Workspace

Data Analysis / Visualization: SciKit-Learn, Matplotlib, SciPy

ATTITUDE

- Proactive and detail-oriented, always eager to learn and apply new technologies.
- Collaborative team player, ready to support peers and contribute to group success.
- Solution-driven, with a strong ability to adapt and innovate in challenging situations.
- Committed to continuous improvement and personal growth in both technical and professional skills.

SEMINARS AND TRAININGS ATTENDED

- PCSC 2021: Philippine Computing Science Congress 2021
Zoom
May 06, 2021
- Cybersecurity Buff: Defending Against SQL Injection and Brute Force Assaults
TIP-QC
April 07, 2025
- UI/UX Competition: Museum on Hand: Your Mobile Museum Experience
TIP-QC
November 15, 2023
- Cognitive Cloud Conclave 1.0
TIP-QC
November 17, 2023
- JPCS: AI-AZ Webinar
TIP-QC
December 16, 2022

EXTRA AND CO-CURRICULAR ENGAGEMENTS AND VOLUNTEER WORKS

- Junior Philippine Computer Science (JPCS) TIP QC
Member
October 21, 2023 - February 12, 2024
- Mixed Media Masters
Member
October 23, 2023 - February 12, 2024
- Abstract Combination with Emotional Quotient TIP QC
Member
October 17, 2023 - February 12, 2024

REFERENCES

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