Nelson Marc S. Santos

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EDUCATION

Tarlac State University – College of Computer Studies | **San Isidro, Tarlac City**
Bachelor of Science in Computer Science | **August 2021 – July 2025**
Cumulative GWA: 1.259 (on a 1.0-5.0 scale)

Certifications: *CISCO Certifications*: Switching, Routing, and Wireless Essentials; Cyber Threat Management; Introduction to Networks | *Online Course*: Conquering Responsive Layouts

TECHNICAL SKILLS

Languages: HTML5/CSS3, JavaScript, Python, Java
Tools & Technologies: React JS, Bootstrap, Tailwind, MySQL, Git

PROJECTS

AnimeVoyage – Anime Review Blog
Front-End Development **October 2023**
- Designed and built a static blog website demonstrating proficiency in HTML5/CSS3, and JavaScript.
- Integrated modern UI/UX principles enhancing user engagement and accessibility.

AnimeVoyage Figurines – Mock Merchandise Store **December 2023**
Full-stack Development
- Developed a mock merchandise store built with PHP, MySQL, and JavaScript.
- Integrated user authentication and registration system enabling user access levels.
- Created an analytics dashboard for monitoring and administrative panel for management.
- Designed and built a responsive layout using Bootstrap and Tailwind, enhancing user accessibility.

AutoSpotter – Parking Management WebApp **December 2023**
Full-stack Development
- Co-developed a real-time parking management system prototype using Arduino and IoT technology.
- Implemented remote live updates on parking availability, enhancing user experience.
- Created a booking system for users to reserve spots, and a real-time admin analytics dashboard for managing spaces and monitoring occupancy.
- Utilized MySQL and Express to ensure robust and secure data management and server-side processing.

AcneVision – Acne Detection Application **April 2025**
Android Development, Machine Learning
- Developed an Android-based real-time acne classification app using YOLOv9 and Kotlin
- Integrated YOLOv9 deep learning model with ONNX, enabling real-time identification and classification of acne types through smartphone cameras.
- Designed a user-friendly interface with real-time preview, detection overlays, and result visualization to enhance user experience.

Shopping Items – Item List **June 2023**

Full-stack Development
- Developed a web-based mobile application for managing shopping list.
- Designed with a mobile-use approach, ensuring seamless user experience on mobile devices.
- Integrated Google Firebase to enable real-time data synchronization across multiple devices, providing users with instant updates and collaboration capabilities.

JavaScript Parser – Parse Tree Generator **May 2024**

Software Development
- Created a comprehensive JavaScript parser that performs both lexical analysis (tokenization) and syntactical analysis (parsing).
- Built a user interface using React.js and Tailwind to accept input and display parsing results, including token lists and AST visualizations.
- Implemented a tokenizer to break down an expression into tokens that constructs an Abstract Syntax Tree (AST).

Random Password Generator – Web Cryptography API Generator **May 2024**

Front-End Development
- Developed a web application that generates strong, random passwords using the Web Cryptography API.
- Applied modern UI design principles to create a visually appealing and functional user interface, enhancing user satisfaction and engagement.

EXPERIENCE

Summer Internship – Tarlac City Local Government Unit **June 2024–July 2024**

Software Development, Data Entry
- Assisted in developing a system for a dialysis center using React JS, acquiring hands-on experience in system development.
- Encoded sensitive system user information requiring keen attention to detail and correctness, gaining basic functional skills in MS Excel.