

# Nelson Marc S. Santos

<https://github.com/santos1n>

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## EDUCATION

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**Tarlac State University** – College of Computer Studies

Bachelor of Science in Computer Science

**Cumulative GWA:** 1.259 (on a 1.0-5.0 scale)

**San Isidro, Tarlac City**

**August 2021 – May 2025**

**Programming Coursework:** Software Engineering; Data Structures and Algorithms; Operating Systems; Computer Organization and Assembly Language; Automata Theory and Formal Languages

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

**Benigno S. Aquino National High School** – Senior High School

Science, Technology, Engineering, and Mathematics (STEM)

**General Average:** 95% – With High Honors

**Concepcion, Tarlac**

**June 2019 – July 2021**

## TECHNICAL SKILLS

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**Languages:** HTML5/CSS3, JavaScript, Python, Java

**Tools & Technologies:** Bootstrap, Tailwind, MySQL, Git

## PERSONAL PROJECTS

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*All my personal projects are published on [my GitHub profile](#).*

**AnimeVoyage** – Anime Review Blog | [Github Repository](#)

**October 2023**

*Front-End Development*

- 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 | [Github Repository](#)

**December 2023**

*Front-End Development and Back-End 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 | [Github Repository](#)

**December 2023**

*Front-End Development and Back-End Development*

- 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.
- Acquired comprehensive understanding of the Arduino ecosystem and IoT systems in general.

## **Shopping Items – Item List | [Github Repository](#)**

**June 2023**

### *Front-End Development and Back-End Development*

- Developed a web-based mobile application for managing shopping list, utilizing HTML, CSS, JavaScript, and Google Firebase for real-time data storage.
- Designed with a mobile-use approach, ensuring seamless user experience on mobile devices, aligning with modern UI/UX standards.
- 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 | [Github Repository](#)**

**May 2024**

### *System Development*

- Created a comprehensive JavaScript parser that performs both lexical analysis (tokenization) and syntactical analysis (parsing).
- Built a simple 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 | [Github Repository](#)**

**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.