

# Bain Hansly Cruz

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## PROFESSIONAL SUMMARY

**Full-Stack Developer** with experience building and deploying production-grade systems in both academic and freelance environments. Proficient in **Next.js**, **TypeScript**, **PostgreSQL**, **Tailwind CSS**, and **Docker**, with a solid foundation in **SDLC**, debugging, and scalable database design. Skilled at translating complex requirements into clean, secure, and maintainable code using agile practices. Proven track record of delivering user-focused applications that solve real-world problems. Seeking a **frontend, backend, or full-stack** role where I can contribute to high-impact, scalable software solutions.

## TECHNICAL SKILLS

- **Languages & Programming:** JavaScript, TypeScript, Java, Python
- **Web Development:** Next.js, Tailwind CSS, HTML5, CSS3
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools & Frameworks:** Prisma ORM, Zod, GitHub
- **DevOps & Hosting:** GitHub Actions, Vercel
- **Technical Support:** Windows troubleshooting, Networking, Hardware/Software Maintenance, User Training
- **Core Concepts:** SDLC, Database Design, Software Testing, Debugging, RBAC Security, Core Networking
- **Development Fundamentals:** Version Control Systems, Software Development Methodologies, Data Structures, Object-Oriented Design, Algorithms

## PROFESSIONAL EXPERIENCE

### 3R Shane Rice Mill

September 2024 – Present

#### Freelance Full-Stack Developer (Project-based role)

- Conducted requirements analysis and gathered stakeholder feedback to guide system development; provided ongoing maintenance and iterative feature updates based on user needs.
- Designed and implemented a user-friendly UI/UX using **Tailwind CSS** and **Next.js**, enhancing usability for diverse user roles.
- Normalized the PostgreSQL database schema to align with stakeholder requirements, improving data integrity and query performance.
- Developed an Inventory Management System with POS integration using **Next.js**, **PostgreSQL**, and **Prisma ORM** reducing manual errors and increasing operational accuracy.
- Built a real-time analytics dashboard with **Recharts** for visualizing **sales trends**, **inventory turnover**, and **purchasing patterns** to support data-driven decision-making.
- Implemented **role-based access control (RBAC)** to enforce permission levels for admins, inventory managers, and sales staff.
- Provided on-site tech support and resolved hardware/network issues, improving overall system uptime.
- Implemented a **Purchase Order module** and led on-premise deployment, streamlining procurement processes.
- Created a secure user account model with separate entities for email, password, and reset tokens, enhancing account security and recovery processes.
- Delivered end-user training for 10+ staff, resulting in successful system adoption within the first week.

### Nueva Ecija University of Science and Technology (NEUST)

May 2025 – June 2025

#### Technical Support Consultant (Post-OJT Deployment Support)

- Provided post-OJT support to ensure successful deployment and adoption of the College Schedule Management App developed during the previous semester.
- Led **Docker-based local deployment**, configuring the production environment and resolving system-level issues across university departments.
- Conducted training sessions and onboarding workshops for faculty to ensure confident and consistent system usage.
- Addressed post-deployment bugs, responded to user feedback, and implemented minor adjustments to improve functionality and user experience.

#### Freelance Full-Stack Developer (Project-based role)

January 2025 – May 2025

Independently initiated and developed this project during my OJT, beyond the official internship scope.

- Conducted system requirement analysis and architecture design in collaboration with department heads and faculty.
- Developed and delivered a **College Schedule Management App** using **Next.js**, **Flask**, and **PostgreSQL**, enabling automated conflict detection for course scheduling.
- Led **system architecture design** and collaborated with academic stakeholders to gather requirements and model scheduling rules.
- Translated **Figma-based UI designs** into a responsive, mobile-friendly front end using **Tailwind CSS**.
- Implemented **role-based access control (RBAC)** to restrict and manage access levels for administrators, faculty, and staff within the scheduling system.
- Created backend logic for time/day overlap checking, optimized queries for large course datasets, and validated data integrity during form submissions.
- Worked closely with stakeholders to refine user flows and ensure development matched end-user expectations.
- Documented the system thoroughly and delivered **SQL scripts**, **database backups**, and a deployment-ready application package for handover.

**IT Support Intern**

**January 2025 – May 2025**

- Provided technical support to students, faculty, and administrative staff, resolving software, hardware, and network-related issues to maintain academic operations.
- Configured and maintained desktop and lab environments, ensuring all systems were ready for instructional use.
- Assisted in equipment setup and audiovisual support for academic events and department activities.

**KEY PROJECTS**

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**3R Shane Rice Mill IMS with POS Integration** *(Capstone Project; Freelance Project)*

- Developed a full-stack Inventory Management System with POS integration using **Next.js**, **PostgreSQL**, **Prisma ORM**, and **Tailwind CSS**.
- Built an **analytics dashboard** with **Recharts** for real-time sales monitoring, inventory turnover analysis, and purchase vs. sales trend insights.
- Implemented **role-based access control (RBAC)** and a **procurement module** with automated PO logic to streamline approval workflows.
- Designed a normalized relational database with Prisma to optimize performance and enforce data integrity.
- Fulfilled both academic requirements and production-level deployment for a real business.

**College Schedule Management App** *(Freelance Project during OJT Practicum)*

*Built for NEUST while serving as an IT Support Intern, outside of official practicum scope.*

- Built a scheduling platform using **Next.js**, **Flask**, and **PostgreSQL** to automate faculty and classroom scheduling.
- Integrated **conflict detection logic** for time and room overlap, enabling conflict-free schedule creation.
- Implemented schedule printing features using the university’s official format to support administrative needs.
- Designed the frontend using **Figma-based mockups** and deployed the system locally via **Docker**.
- Reduced manual workload and improved scheduling efficiency for university staff.

**EDUCATION**

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**Bachelor of Science in Information Technology**

**2021 – 2025**

*Nueva Ecija University of Science and Technology (NEUST)*

**CERTIFICATIONS**

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- IT SPECIALIST DATABASES – Certiport (2023)
- IT SPECIALIST HTML AND CSS – Certiport (2024)

**LANGUAGES**

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- English – Full Professional Proficiency
- Filipino / Tagalog – Native Proficiency

**REFERENCES**

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