

# Lhenard M. Trinidad

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## EDUCATION

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### Mapua Malayan Digital College

Expected: July 2026

B.S. in Information Technology Specialization in Software Development

**Relevant Coursework:** Software Development, Data Structures & Algorithms, DevOps, Mobile Development, Capstone Project

## EXPERIENCE

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### IT Support Specialist

January 2025 – December 2025

Nextvas Inc.

Calamba, Laguna

- Provided comprehensive **hardware troubleshooting, repair, and technical support** for organization's IT infrastructure
- Configured and managed **local network systems** using **MikroTik routers and switches** to ensure secure connectivity
- Developed **custom inventory management system** for IT equipment tracking, improving **asset accountability and maintenance scheduling**
- Created an **automated resume checker system** for the HR department, enhancing **candidate screening accuracy and processing speed**

### Social Media Manager

March 2024 – October 2024

Burgarage/Chow Express

Los Baños, Laguna

- Managed **social media platform and ads** for both burgarage and chow express brands; edited **video content** and created **engaging content** for the business; developed **monthly content calendar** for strategic posting

### Software Developer

February 2024 – April 2024

AlgOctopus(NFT)

- Developed **custom image randomizer system** for NFT generation using **Algorand blockchain technology**
- Successfully generated and delivered **2,600 unique NFT images**, contributing significantly to project success
- Implemented **efficient algorithms for trait combination and rarity distribution**

## PROJECTS

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### PetTapp (Capstone Thesis) | React Native, React.js, Node.js, Express.js, TypeScript, MongoDB

- A **full-stack pet care platform** with **React Native mobile app and React.js web application serving pet owners and business owners (veterinary clinics, grooming salons, pet shops, lodging facilities)** with dual registration system.
- Comprehensive features including **admin verification system** requiring business owners to submit and verify **DTI/SEC business registration, BIR Certificate, and government-issued ID** before platform activation; engineered features including **real-time booking, GPS tracking, payment processing (GCash/Maya), review system, real-time messaging, and push notifications**
- Deployed backend on **Render** with **Swagger API documentation** and frontend on **Vercel**; built with **TypeScript (51%) and JavaScript (48.5%)**; designed for **scalable architecture supporting Mega Metro Manila coverage** with future regional expansion capability; ensured **Data Privacy Act compliance** for Philippine market

### FamilyFlow: Household Task Tracker | Kotlin, Android, Gradle, Agile/Scrum

- Developed a **native Android mobile application** using **Kotlin** for household task management with **household authentication** via PIN validation, enabling families to create and distribute chores across members; implemented **customizable drag-and-drop interface** allowing users to reposition homepage elements dynamically
- Engineered comprehensive features including **real-time chat functionality** with search bar, **event calendar integration**, and **budget tracking**; built **animated navigation bar** with smooth transitions revealing household management, chats, calendar, and budget sections
- Practiced **Agile/Scrum methodology** with **sprint planning and backlog management**; conducted comprehensive **test case documentation** covering user authentication, UI customization, navigation, and chat functionality; built with **Gradle build system** for dependency management and project automation

### BrainBytes AI | Node.js, MongoDB, Docker, GitHub Actions, DevOps

- Architected and deployed a comprehensive **CI/CD pipeline** for AI tutoring platform using **GitHub Actions** with **6 automated workflows** (Build, CI, Deploy, Quality, Security) for continuous integration and delivery
- Implemented **Docker containerization** with **multi-environment deployment** (test, staging, production) using **docker-compose**; integrated **MongoDB, Node.js backend, and Nginx reverse proxy with SSL configuration** for secure communication

- Established comprehensive **DevSecOps practices** with **multi-tool security scanning** (Snyk, Trivy, OSV Scanner, npm audit); implemented **automated E2E testing, code quality checks (ESLint, Prettier)**, and **matrix testing across Node.js 18.x and 20.x** for compatibility assurance

#### Connectly Social Media API | Python, Django, REST API, SQLite, Design Patterns

- Engineered a **RESTful API** for social media platform using **Django and Django REST Framework**, implementing **authentication and authorization flows** with **token-based authentication** for secure user access and post management
- Leveraged **Claude AI and ChatGPT** for **AI-assisted development**; developed **CRUD operations** with **Factory and Singleton design patterns**; integrated **HTTPS/SSL security** and conducted comprehensive **API testing**

#### MotorPH Payroll System | Java, SQL Database, OOP, Maven

- Architected an enterprise-grade **payroll management system** using **Java and SQL database**, implementing **role-based access control (RBAC)** for HR administrators and employees with **advanced OOP design patterns**
- Developed comprehensive **employee self-service portal** with **automated salary calculations**; integrated **time tracking and attendance management** with **leave management workflow**; engineered **SQL database schema** with optimized queries

#### ChowGarage Restaurant Website | HTML, CSS, JavaScript, Figma, GitHub Pages

- Designed and developed a **fully responsive restaurant website** using **HTML5, CSS3, and JavaScript**, creating **wireframes and prototypes in Figma** to plan UI/UX design before implementation
- Implemented **interactive navigation with hover effects**; integrated **Google Maps API**; deployed on **GitHub Pages**; collaborated through **Git version control** managing **50+ commits**

### TECHNICAL SKILLS

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**Languages:** Python, JavaScript, HTML, CSS, SQL

**Frameworks & Libraries:** React Native, React.js, Node.js, Express.js, Django, Django REST Framework

**Databases:** MongoDB, MySQL

**DevOps & Cloud:** Docker, GitHub Actions, CI/CD, Render, Vercel

**Tools & Technologies:** Git, GitHub, Figma, Swagger, MikroTik, REST APIs

**Development Practices:** OOP, Design Patterns, Agile/Scrum, DevSecOps, AI-Assisted Development, User Research, Network Administration