Gem Rey B. Rañola

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EDUCATION

Dalubhasaan ng Lungsod ng Lucena   Lucena City, PH

Bachelor of Science in Information Technology   June 12, 2025

- **Relevant Coursework**: Introduction to Computing, Object-Oriented Programming, Data Structures and Algorithms, Database Management Systems, System Analysis and Design, Web Development Technologies
- **Awards and Honors:** Dean's Lister, Most Promising IT Practitioner

TECHNICAL SKILLS

- **Programming Languages**: HTML/CSS, JavaScript & TypeScript, PHP, SQL, Python, C#
- **Frameworks and Libraries**: .NET, React.js, Next.js, Django, Node.js, FastAPI, Flask, Tailwind CSS
- **Tools**: VS Code, Visual Studio, Git, GitHub, Figma, XAMPP, Windows, Linux (Ubuntu, Kali)

PROJECTS

Queatives Web App   Lucena City, PH

Full-Stack Developer   Nov 2024 – Jan 2025

- Collaborated as one of 3 developers to build a full-stack web app connecting job seekers and employers for roles like dancers, choreographers, and artists.
- Developed frontend and backend features to support job matching and user profiles.
- Improved user engagement by implementing intuitive search and filtering functions.
- Contributed to a city government project supporting local employment initiatives.

DLL Alumni Office Information System   Lucena City, PH

Full-Stack Developer   Mar 2023 – Feb 2024

- Developed a modular web application using React.js frontend and Django backend, improving alumni data management efficiency by 35%.
- Designed and optimized PostgreSQL database structures with ORM techniques, increasing data integrity and speeding queries by 25%, resulting in faster report generation.
- Created interactive data visualizations and user interfaces, enhancing user experience and reducing training time by 20%.
- Wrote clean, scalable full-stack code following best practices, ensuring easier future maintenance and faster feature updates.

WORK EXPERIENCE

Cooperative Bank of Quezon Province   Lucena City, PH

Information Technology Intern   March 2025 – June 2025

- Developed Fixed Furniture and Equipment Inventory System and secure Voting System using Django, PostgreSQL, and Tailwind CSS, improving asset tracking by 40% across multiple branches in Quezon Province.
- Implemented secure Voting System used in CBQP General Assembly, enhancing voting accuracy and decision-making efficiency.
- Defined requirements and planned deployment with stakeholders, boosting system usability by 30%.
- Provided hardware setup, maintenance, and network configuration, reducing operational downtime by 25%

through proactive IT support and infrastructure optimization.

LEADERSHIP & ACTIVITIES

ELITE (Elevating Leaders Innovatively Through Training and Excellence)   Lucena City, PH
Founder & Former President   May 2024 – July 2025

- Established a student-led organization providing technical event support for 15+ campus activities annually.
- Led initiatives that improved leadership skills and collaboration among 100+ student members across 29 DLL organizations.
- Conducted 10+ workshops on event presentation, sound system operation, and visual management, training over 200 students.
- Increased event technical support efficiency by 30%, reducing setup time and improving event quality

IT Paradigm – Department Organization   Lucena City, PH
Member   July 2022 – June 2025

- Facilitated 12+ peer-to-peer learning sessions on computer assembly and disassembly.
- Promoted foundational IT skill development among 50+ department members, improving technical competence.
- Assisted in troubleshooting hardware issues during department events, reducing downtime by 25%.

Open iT Hackathon Codefest 2025   Lucena City, PH
Full-Stack Developer & Team Leader   July 2025

- Led a team of 3 in a 2-day competition with 10 teams from 5 schools to design a gamification system.
- Built a functional prototype that increased user engagement and motivation through game-based mechanics.
- Managed frontend and backend development, delivering a seamless and fully integrated product within deadline.

DICT Hack4Gov 2024, Region IV-A   LIMA Park Hotel, Batangas
Team Leader   May 2024

- Led a development team of 4 to create cybersecurity and governance solutions within 24 hours.
- Applied leadership and technical skills to deliver strategic, effective solutions under pressure.

DICT Hack4Gov 2023, Region IV-A   Calamba, Laguna
Participant   September 2023

- Competed in a Capture the Flag event, aiming to earn the highest points solving cybersecurity challenges.
- Worked with a team of 4 applying threat detection, vulnerability assessment, and secure system design.
- Presented team's performance and strategies to cybersecurity and government experts.

LANGUAGES & INTERESTS

- **Language:** English (Fluent), Filipino (Native)
- **Interests**: Web development, Software development, Hackathons, Cybersecurity competitions, Mentoring student developers, Frontend frameworks, Artificial intelligence, Agile methodologies, Open-source contribution

REFERENCES

Leonard Andrew Mesiera, MIT
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