

JOHN CARLO P. JACOB

📍 Quezon City, Philippines

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Education

Quezon City University	Aug. 2021 – June 2025
<i>Bachelor of Science in Information Technology</i>	<i>Course</i>
<i>Quezon City</i>	<i>Location</i>

Technical Skills

- Languages: HTML, CSS, JavaScript, TypeScript and Python
- Frameworks/Libraries: React.js, Next.js, Node.js (Express.js), FastAPI, and Tailwind CSS
- Databases: MySQL, PostgreSQL, MSSQL, and MongoDB
- Developer Tools: Visual Studio Code, Postman, GitHub, Git, and Figma

Work Experience

Lightweight Solutions Quezon City, Philippines	Sept. 2024 – Feb. 2025
<i>Full Stack Developer Intern</i>	
<ul style="list-style-type: none">Trained in Node.js (Express.js), TypeScript, Prisma ORM, and databases (PostgreSQL, MySQL, MSSQL, MongoDB).Built and maintained RESTful APIs with seamless database integration.Collaborated with Frontend Developers (Co-Interns) for smooth backend-frontend integration.Developed the LWS Invoice Web Application, automating invoice generation and management for internal processes.Created basic CRUD APIs using Python (FastAPI) with PostgreSQL.Studying AI development with Python.	

Personal Projects

LWS Invoice Web Application	Nov. 2024 – Feb. 2025
<i>Full Stack Developer</i>	
<ul style="list-style-type: none">Developed the frontend using Next.js and React Query for API integration.Built APIs with Node.js (Express.js), TypeScript, and PostgreSQL Database.Designed a system to manage clients and invoices, calculate the total outstanding amount of overdue and draft invoices, and automate invoice generation.	

Capstone Research Project	Sept. 2024 – March 2025
<i>Power Walk: Converting foot traffic into sustainable energy, utilizing piezoelectric transducers with RFID and data visualization for efficient power generation</i>	
<i>Software & Hardware Engineer</i>	
<ul style="list-style-type: none">Developed a system to monitor and track the electricity generation and consumption of piezoelectric transducers connected to a battery. The system includes a chart displaying the number of students who use the charging station daily, an electricity chart showing the daily generated and consumed electricity, and a report generation feature.Engineered an eco-friendly charging station hardware device that will help students of QCU to have easy access when in need of a charging station, in case of emergency and sudden draining of personal phones, without the restrictions of the school policy.Created a hardware device that converts kinetic energy from foot traffic within the institution into mechanical energy using piezoelectric tiles.Developed a system utilizing Arduino and NodeMCU ESP8266 technology to authorize student charging via RFID card, enabling a seamless charging process with a simple tap of their official school ID.	