



# NATHANIEL KINGSLEY PULAN

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- Binangonan, Calabarzon, Philippines

## EDUCATION

<b>Polytechnic University of the Philippines</b>	Bachelor of Science in Computer Engineering Specialization in Big Data	<b>Sept 2025</b>
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## EXPERIENCES

### Back-End Developer (INTERNSHIP), ROC.PH Aug – Oct 2023

- Developed an extension for student OJT applications, integrating front-end and back-end functionalities.
- Utilized Bootstrap for front-end development to ensure a responsive and user-friendly interface.
- Implemented SQL for database management, ensuring efficient data handling and retrieval.

### Front-End Development (TRAINING COURSE), TESDA May 2024

- Enhanced proficiency in HTML, CSS, and JavaScript for web design, focusing on modern techniques and best practices.
- Developed skills in responsive web design, user experience (UX) principles, and interactive web elements using Jscript.

### Automation Specialist (INTERNSHIP), OPTOGROW Aug – Sept 2024

- Developed automation solutions to streamline processes using GoHighLevel.
- Ensured and implemented system automation for repetitive tasks, documents, web design.
- Utilized automation tools to optimize workflows.

## ACADEMIC PROJECTS

### Expense Tracker – Software Development June – Aug 2023

- Develop a full-stack expense tracking application using MERN Stack (MongoDB, Express, ReactJS, Node.js).
- Configured Node.js and Express back end with MongoDB for data storage and developed a dynamic ReactJS front end.

### College of Engineering Kiosk – Software Development Nov2024 – Feb 2025

- Developed an interactive digital map kiosk for the College of Engineering to help visitors navigate the campus.
- Designed a user-friendly interface with searchable building and room locations.
- Implemented real-time updates to ensure accurate and accessible navigation information.

### Thesis Project – Hardware Development, AI Development, Software Development, Data Analytics July 2025

- Title: Trash Tech: Automated Segregation Solution with Volume & Toxicity Alert System
- Developed a smart waste segregation system using computer vision (Rob flow) to automatically classify waste into biodegradable, non-biodegradable, recyclable, and others.
- Integrated ultrasonic sensors to monitor bin fill levels and an MQ-136 sensor for detecting toxicity.
- Built a real-time monitoring dashboard for data collection and visualization, enabling accurate tracking and reporting.
- Enhanced data processing skills by handling environmental data and organizing datasets for analytics.

## ADDITIONAL INFORMATION

**Computer Skills:** Python, HTML, CSS, JavaScript, PHP, Arduino, MS Office, SQL, Git, Figma, Tableau, GHL, Postman, Jira, Trello.