

JOHANNE ELLISE R. PAG-ONG

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TECHNICAL SKILLS

Programming Languages: Java, Python, C++

Front-End Development: HTML, CSS, JavaScript, PHP

Databases: MySQL, JDBC, PostgreSQL

Machine Learning: TensorFlow, Keras, PyTorch

Testing: Selenium, Cucumber/Gherkin, Postman

Tools: Jira, Git Version Control, VS Code, JetBrains IDE

EDUCATION & CERTIFICATIONS

Bachelor of Science in Computer Engineering

June 2025

De La Salle University, Manila

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Database Management, Software Design, Intelligent Systems, Computer Vision and Machine Learning

EF SET English Certificate (C2 Proficient)

July 2025

EF Education First | [EF-SET](#)

AWS Certified Cloud Practitioner

Amazon Web Services | In Progress

PROJECTS

Template Calendar Web Application | [GitHub](#)

April 2025 - Present

Ongoing Personal Project

Tools & APIs: Java, Spring Boot, PostgreSQL, HTML, CSS, JavaScript

- Designed a web-based calendar application with templates for irregularly recurring tasks.
- Ongoing project to refresh OOP skills and explore full stack development with RESTful APIs using Spring Boot and JPA.

Obstacle Detection for the Visually Impaired | [GitHub](#)

April 2025

Group Thesis

Tools & APIs: Python, PyTorch, TensorFlow, Roboflow, Arduino, DepthAI

- Designed a smart vest equipped with microcontrollers, haptic motors, and an AI stereo camera
- Led the development of a machine learning model, achieving an accuracy of 73% and mAP% of 56 on a weak dataset
- Programmed the Arduino firmware to enable Bluetooth communication between the smart vest and an Android application, reaching an input-to-feedback time of under 500 milliseconds.

Mobile Application for Obstacle Detection | [GitHub](#)

April 2025

Thesis

Tools & APIs: Kotlin, Jetpack Compose, Bluetooth, Docklight

- The companion application allows the user to interact with the aforementioned vest through a user interface
- Designed an accessible UI using Jetpack Compose, ensuring that visually impaired users could navigate it easily.
- Integrated audio feedback with an average response time of 220 milliseconds with latency.

PROFESSIONAL EXPERIENCE

Software Quality Assurance Intern

May 2024 - Aug 2024

Asurion Hong Kong Ltd. - ROHQ

Bonifacio Global City, Taguig

- Scripted and maintained tests using Selenium for Java, integrated into the CI/CD pipeline with GitHub Actions.
- Updated and automated 140+ test cases to ensure reliability and coverage during regression testing.
- Collaborated in an agile QA team with weekly scrums, working closely with developers and DevOps.
- Recognized in performance evaluation for independence, resourcefulness, technical skills, and quick learning.