

JOSHUA ASHLEY D. FORMENTO

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SKILLS

Programming Languages: *Typescript, Python, Java, C++, Javascript, Arduino*

Frontend Skills: *HTML, CSS, Bootstrap, Tailwind CSS, React, Vue.js, Playwright*

Backend Skills: *Node, Express, PHP, FastAPI, RESTful API*

Database: *MySQL, SQL, PostgreSQL*

AI / ML: *Machine Learning, OpenAI*

Cloud Platforms: *Vercel, Render*

Version Control: *Git, Github*

EXPERIENCE

Pixel8 Web Solutions & Consultancy Inc.

On-the-Job Training (OJT)

Legazpi City, Albay

March 2025 – May 2025

Software Engineering Intern

Project: BookOn (Mobile Appointment Booking Application)

Tech Stack: *Vue.js, Quasar Framework, PHP, MySQL, Javascript*

- Built and refined the **payment response system**, validated with **MySQL records** and integrated with **automated email confirmations**, ensuring accurate and reliable transaction updates.
- Implemented **10+ Playwright test cases** covering booking and payment flows, reducing regression bugs and strengthening deployment stability.
- Developed the **ratings & reviews module** and conducted **beta testing across 5+ key flows** (booking, payment, reviews), enabling feedback from **10+ test users** and ensuring release readiness.
- Practiced **Agile development** using **OpenProject** for **sprint planning** and **GitLab** for **version control and code reviews**, improving collaboration and delivery efficiency.

PROJECTS

SULAT-SURI: Automated Essay Evaluation through the Integration of Large Language Model with User-Defined Criteria-Based Grading.

Undergraduate Thesis Project | Batangas State University

Vercel | Render 1 | Render 2 | GitHub | Live Demo

Tech Stack:

- **Frontend:** React, TypeScript, Shadcn
- **Backend:** Node, Express, FastAPI
- **Database:** PostgreSQL, Prisma ORM
- **AI Integration:** OpenAI, Langchain
- **Infrastructure & Tools:** RESTful API, JWT Authentication, Zod Validation, Winston Logging
- Developed a web app that allows **up to 10 PDF uploads simultaneously**, providing automated, rubric-based grading with integrated LLMs for real-time feedback.
- Built using **React, Node.js (TypeScript), FastAPI, and PostgreSQL**, with a scalable microservices design.
- Implemented **grouping of essays by class section**, enabling educators to efficiently organize and review multiple submissions.
- Enhanced usability with **bulk grading support** and a clean UI for handling large sets of student essays.

Personal Portfolio Website

Vercel | Live Demo

Tech Stack: *HTML, Tailwind CSS, React, Vite, TypeScript*

- A personal portfolio website showcasing my information, projects, skills, and contact information.

EDUCATION

Batangas State University – TNEU Alangilan Campus

Bachelor of Science in Computer Engineering (BScpE)

Awards: Dean's Lister, GPA: 1.65 / 1

Batangas City

Expected Graduation Date: Oct 2025