

Gerald Kent Tolentino

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WORK EXPERIENCE

Forest Products Research and Development Institute

Los Baños, Laguna

Project Technical Assistant IV

Sep 2025 – Mar 2026

- Engineered wireless functionality to send readings from the ESP32-S3 to a computer in real time, reducing time of data collection from 30 minutes to 5 minutes.
- Conditioned 20+ wood samples using an environmental chamber and oven to support moisture meter calibration and testing.
- Wrote a python script to automate image cropping and consolidation of 35 laser-engraved wood samples.
- Refactored a single-file Arduino sketch into OOP-structured C++ (PlatformIO), taking ownership of the firmware codebase as the sole developer on the rewrite.

Web Catalyst LLC

Quezon City, Manila

Junior Back End Developer

Jan 2024 – Jul 2025

- Deployed REST APIs in TypeScript for 4 client projects (RevScout, GRocket, Next MBA, Nonstop Travel Agency).
- Architected RevScout as sole backend developer, an Amazon price-tracking tool using Puppeteer and a BullMQ-queued schedule to scrape 5,000+ product/pricing points from 20+ stores.
- Implemented JWT-based authentication for all platform users (~55,000+), ensuring secure and seamless access.
- Integrated LiveKit's WebRTC SDK, enabling 200+ live online classes with real-time video and discussion.
- Managed 49 GB of data on AWS S3, ensuring secure and organized storage.
- Directed a 5-member team to ship 3 core platform features in a 2-month sprint window.

Pixel8 Academy

Legazpi City, Albay

Junior Back End Developer (Internship)

Feb 2024 – Jun 2024

- Built and implemented 6 CRUD APIs in PHP for government-facing web applications, achieving 100% unit test coverage using Codeception.
- Selected by the outgoing team lead to take over leadership of a 5-intern team, cutting average task completion time from 7 to 3 days.

PROJECT EXPERIENCE

Hobbly

<https://github.com/Gvtone/hobbly-monorepo>

Fullstack Hobby Tracking & Journaling App

- Built a fullstack app from design to production across 13 NestJS modules, with HTTP-only JWT auth and access/refresh token rotation with React/Vite/Tailwind as the front end.
- Wrote Jest unit tests with mocked Prisma/service dependencies, covering key failure-path and edge-case branches.
- Containerized API and frontend with multi-stage, Turborepo-aware Docker builds.
- Set up a GitHub Actions CI pipeline running lint, typecheck, build, and test on every push.

Job Hunter

<https://github.com/Gvtone/job-hunter>

Automated Job Discovery Pipeline

- Built an n8n-orchestrated pipeline (Python/Flask, PostgreSQL, Docker) that scrapes job listings, scores fit via LLM, and alerts via Telegram, cutting manual review from hours to minutes.
- Implemented a capped, weighted scoring model across 4 categories (stack fit, experience, salary, risk flags) to rank job fit consistently.
- Designed two-layer deduplication (in-batch + cross-run) and offset-rotation logic so repeated scrapes surface new listings.

Pest Advisor (Thesis)

<https://github.com/Gvtone/insect-trap-webpage>

Real-Time Pest Recognition and Counting DSS

- Developed a Decision Support System using YOLO and SAHI for real-time pest detection, achieving 65.72% accuracy, 72.01% precision, and 62.53% recall, with “Strongly Agree” evaluator consensus (avg. 4.57–4.71/5).

SKILLS

Language: JavaScript, TypeScript, Python, SQL

Back End/DevOps: Node.js, NestJS, Prisma, REST APIs, JWT, Swagger, BullMQ, Jest, Docker, GitHub Actions (CI/CD)

Front End/Cloud/Tools: React, Vite, Tailwind CSS, AWS (S3, CloudFront, IAM), Stripe, Turborepo, Git, C++, ESP32

EDUCATION

Laguna State Polytechnic University

Santa Cruz, Laguna

Bachelor of Science in Computer Science

AWARDS

- Magna Cum Laude
- Best in Thesis: Created a vision-based system for rice pest counting and recognition.
- DOST-SEI Recipient: Awarded the Junior Level Science Scholarship.