

JONATHAN TIGLAO

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SKILLS/TECH STACK

Languages: JavaScript, TypeScript, Java, HTML/CSS, PHP, Python, Kotlin, C++, SQL

Frameworks & Libraries: Next.js, React, Tailwind CSS, Bootstrap, CakePHP, Flask

IoT/Embedded: Arduino, ESP32, Embedded C++, Sensor Integration

Databases: MySQL, PostgreSQL, Firebase, MongoDB

Tools: Git, GitHub, Linux

AI & Automation Tools: Claude Code, GitHub Copilot, ChatGPT, Gemini, Grok, Opencode, Antigravity, Obsidian

Marketing & Design: Graphic design (Adobe Creative Suite (e.g., Illustrator, Photoshop, InDesign), CorelDraw, Canva), Video Editing (Adobe Creative Suite – Premiere Pro, After Effects)

EDUCATION

City College of Angeles, Angeles City, Arayat Blvd

July 2026

Bachelor of Science in Computer Science

EXPERIENCE

Creative Marketing & Frontend Development Intern

Feb 2026 — May 2026

Digital Workforce Group

Hybrid

- Progressed the Faith Works brand website from wireframing to 100% frontend completion, handling UI/UX design, layout implementation, and stakeholder review presentations.
- Designed branded marketing assets for digital campaigns including social media graphics, promotional materials, event visuals, and proposal decks aligned with brand guidelines.
- Created wireframes and interface designs for internal web projects, applying user flow research and UI/UX best practices.
- Leveraged generative AI tools to accelerate content ideation, copywriting, research, design support, frontend problem-solving, and workflow automation.
- Applied prompt engineering techniques to optimize AI outputs for specialized tasks including code assistance, proposal generation, marketing content creation, research synthesis, and presentation development.

Part-Time English Tutor

May 2024 — Feb 2025

Nado Nado and Proverbsville School, Blk 50 Lot 14 Fila-Am Friendship Highway, Brgy. Cutcut, Angeles City, Pampanga

- Held the position of English as a Second Language teacher and was primarily responsible for teaching Korean students for their summer camp up until their winter camp.

Graphic Designer

Jun 2022 — Jan 2023

FD Sportswear Philippines

Remote

- Designed multiple custom basketball jersey concepts for diverse client briefs, translating brand identities and style preferences into production-ready sportswear graphics.
- Used visual design elements to communicate brand messaging, inform consumers, and drive product appeal across marketing materials.

PROJECTS

LightPhrase: Cross-platform Paraphraser Utility App | Electron, React, TypeScript, Vite, Tailwind CSS, Node.js, Better Auth, Cloudflare Worker |

Aug 2026

- Built a cross-platform desktop writing assistant (Electron + React/TypeScript) with a Cloudflare Worker backend (Hono, Better Auth, D1) that proxies text generation through Vercel AI Gateway; implemented global hotkey capture, system-wide clipboard injection, and per-user daily quota enforcement.
- Designed and shipped Lightphrase, an AI writing assistant that rewrites selected text in any app via a global shortcut; architected the full stack from an Electron/React/TS desktop client to a serverless Hono API on Cloudflare Workers with D1 persistence and AI SDK integration.

JobStack: Cross-platform Paraphraser Utility App | Next.js 16, React 19, TypeScript, PostgreSQL (Neon), Drizzle ORM, Better Auth, Resend, Vercel |

Aug 2026

- Sole developer on a production job-tracking SaaS: multi-view pipeline (Kanban, table, dashboard), role-based admin, automated email digests (Vercel cron + Resend), CSV export, and custom theming — built with Next.js 16, TypeScript, Drizzle ORM, and Neon PostgreSQL, deployed on Vercel.
- Designed and shipped JobStack, a Kanban-style job application tracker with pipeline management, follow-up automation, and hunt analytics; built across a Next.js 16/React 19 frontend and serverless Postgres backend, with PWA support, Google OAuth, and an email digest system via Vercel cron and Resend.

GENTA System: AI-Powered IoT Educational Assistant | Python Flask, CakePHP, C/C++ (Arduino/ESP32), Google Cloud AI, Google Generative AI (Gemini), MySQL, I2S Audio Processing, UDP Networking, OLED Display Integration. |

Aug 2025 — Dec 2025

- Designed a tri-tier system architecture comprising ESP32-based hardware (Firmware in C++), a Flask-based IoT orchestration hub (Python), and a full-stack administrative dashboard (CakePHP/PHP) to enable real-time voice-to-logic interaction.
- Integrated Large Language Models (LLMs) and Google Cloud AI services, including Gemini Pro for natural language processing, Speech-to-Text (STT), and Text-to-Speech (TTS), enabling seamless voice-driven educational queries and interactive quizzing.
- Engineered adaptive hardware-level visual feedback for ESP32 devices, implementing a "Cozmo-style" OLED animation engine that synchronizes facial expressions (e.g., "thinking," "happy," "listening") with system states to enhance student engagement.
- Developed a multilingual translation layer using Google Translate API, supporting dynamic English-to-Filipino voice translation for inclusive educational content delivery in diverse classroom settings.
- Implemented a robust security framework following industry best practices, including a 3-tier progressive account lockout system, IP and email-based rate limiting, cryptographically secure session management, and math-based CAPTCHA to protect student data and prevent brute-force attacks.

CERTIFICATIONS

AMCHAM NORTH LUZON: “Real Talk: Stuff School Didn’t Teach Us”

Oct 2025

AMCHAM North Luzon

Linux Essentials

Aug 2025

Cisco Networking Academy

CCNAv7: Introduction to Networks

Jan 2024

Cisco Networking Academy

PCAP - Programming Essentials in Python

Dec 2023

Cisco Networking Academy