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Professional Summary

Software Engineer with experience designing, developing, and maintaining production full-stack web applications. Developed and deployed software supporting 200+ law enforcement officers while contributing to a certification platform serving 3,500+ users worldwide. Proficient in Python, JavaScript/TypeScript, and PHP, with expertise in secure application development, REST API design, SQL databases, cloud deployment, AI integration, and scalable software architecture.

Education

B.S. in Information Technology with Specialization in Game Development **June 2026**

University of Perpetual Help System DALTA - Molino Campus (UPHSD-Molino), Bacoor, Cavite

- Capstone: Phalanx Cyber Academy: A Gamified Simulation Platform for Cybersecurity Training
- Graduated Magna Cum Laude

Science, Technology, Engineering, and Mathematics Strand, Senior High School Diploma **July 2022**

Statefields School, Inc., Bacoor, Cavite

High School Diploma **June 2020**

Saint Francis Institute, Learning, and Business High School Inc., Bacoor, Cavite

Experience

Developer **March 2026 - Present**

FreeDiving Coaches of Asia (FCOA), Remote

- Develop and maintain production features for FCOA, a certification platform serving 3,500+ users worldwide, contributing across the frontend, backend, APIs, database enhancements, testing, and technical documentation using PHP, Laravel, MySQL, and PHPUnit.
- Designed and implemented configurable administrative features for course management, including membership eligibility rules, prerequisite validation, teaching credits, personal best records, spirometer requirements, certificate approval workflows, and customizable notifications, reducing reliance on developer intervention for routine administration.
- Built reusable backend and UI components by centralizing business logic, validation, loading states, email normalization, image storage utilities, and form behaviors, improving maintainability, consistency, and user experience across the application.
- Enhanced platform functionality by implementing production features including a configurable membership rule engine, real-time notification improvements, dynamic discipline management, advanced member search, responsive interfaces, and accessibility-focused UI enhancements.
- Diagnosed and resolved production issues involving validation, middleware, data consistency, exports, notification workflows, and administrative tools, improving application stability and operational reliability.
- Collaborated directly with clients to gather requirements, demonstrate completed features, and refine functionality based on stakeholder feedback while contributing to a two-member development team using Git-based workflows.

Web Developer & Technical Support Intern **January 2026 - May 2026**

College of Computer Studies, University of Perpetual Help System DALTA-Molino Campus, Bacoor, Cavite

- Co-developed, deployed, and maintained E-P.A.T.R.O.L., a production patrol logging system for the PNP, serving as a primary full-stack developer responsible for frontend development, backend services, database design, authentication, deployment, and system maintenance.
- Engineered full-stack features using React, TypeScript, Node.js, Express.js, MongoDB, PostgreSQL, Tailwind CSS, and Railway, including REST APIs, role-based authentication, and database architecture.
- Configured production deployments on Railway, managing databases, storage buckets, environment variables, and application releases for operational use.

- Collaborated directly with PNP Bacoar stakeholders through 15+ client meetings, presenting system progress, gathering feedback, and refining features throughout development.
- Delivered a production system supporting the daily operations of 200+ police officers across PNP Bacoar and PNP Santa Rosa.
- Built additional institutional systems, including the Course Syllabus Generator, Dean Faculty Evaluation System, and CCS Website, to support the college's academic and administrative operations.
- Installed and configured development environments and certification software across 100 laboratory computers while troubleshooting hardware, software, and network issues to maintain classroom readiness.
- Delivered technical demonstrations, deployment briefings, and training sessions for faculty, law enforcement stakeholders, and students, including serving as a resource speaker on Google Docs and Microsoft Word.

Lead Developer (University Capstone Project)

June 2025 - Nov 2025

University of Perpetual Help System DALTA-Molino Campus, Bacoar, Cavite

- Led the end-to-end development of Phalanx Cyber Academy by directing a 4-member team using an Iterative and Incremental Development SDLC and coordinating 20 weekly development cycles.
- Designed the system architecture and managed technical planning, task delegation, code reviews, and development timelines, delivering the project on schedule and achieving 90% completion during the first capstone phase.
- Engineered the full-stack web application using Flask, JavaScript, PostgreSQL (Supabase), Tailwind CSS, and Vercel, implementing the frontend, backend, REST APIs, deployment pipeline, and technical documentation.
- Implemented secure authentication and authorization features, including passwordless email login, role-based access control, Argon2 password hashing, CSRF protection, secure session management, and IP-based account logout.
- Designed a scalable PostgreSQL database and implemented 110 REST API endpoints for an architecture supporting up to 50,000 monthly active users.
- Established Git and GitHub development workflows through feature branching, pull request reviews, debugging support, and merge validation to improve code quality and team collaboration.
- Validated the platform through evaluations involving 246 students and 5 cybersecurity experts, achieving Very High ratings under ISO 25010 and ISO 27001 quality standards.

Virtual Advocacy Head Organizer (Senior High Work Immersion)

February 2022 - April 2022

12SEA, Statefields School Inc., Bacoar, Cavite

- Led a 14-member team in a virtual advocacy campaign promoting sustainable water practices.
- Coordinated design, research, and promotion sub-teams to ensure timely project delivery.
- Achieved 2,342 impressions and 370 engagements across digital campaign materials.
- Reported weekly progress updates to the work immersion adviser to maintain alignment and accountability.

IT Department Team Leader (Senior High Work Immersion)

February 2022 - February 2022

Creotec Philippines Inc., Bacoar, Cavite

- Led a 22-member team to design and develop 5 software applications within a 1-week sprint.
- Managed development workflow across design, coding, testing, and documentation phases.
- Facilitated coordination between teams to ensure on-time delivery of all outputs.
- Structured team meetings to improve alignment, accountability, and execution speed.

Skills

Programming Languages: Python, SQL, C#, JavaScript, PHP, TypeScript

Frontend Development: HTML5, CSS3, React, Next.js, Tailwind CSS

Backend Development: Node.js, Express.js, Laravel, FastAPI, REST APIs

Databases: MySQL, PostgreSQL, MongoDB

AI & Automation: AI API Integration (LLMs), Prompt Engineering

Cloud & Deployment: Vercel, Railway, Supabase, Cloudflare

Version Control & DevOps: Git, GitHub, CI/CD Basics

UX/UI Design: Figma, User Research, Wireframing, Prototyping, Accessibility Design

Game Development: Unity, Game Programming

Certifications

- Google UX Design Professional Certificate, Google - 2026
- Google IT Support Professional Certificate, Google - 2026
- Google AI Professional Certificate, Google - 2026
- IT Specialist (Cybersecurity, AI, Python, JavaScript), Certiport - 2026
- OCI 2025 Certified Generative AI Professional, Oracle - 2025
- Cloud Essentials+, CompTIA - 2023
- OCI 2025 Certified (AI Foundations, Foundations Associate), Oracle - 2025
- Oracle Data Platform 2025 Certified Foundations Associate, Oracle - 2025
- IT Specialist (Database, HTML and CSS), Certiport - 2024
- IT Fundamentals+, CompTIA - 2024
- IC3 Digital Literacy Certification GS6 Level 1, Certiport - 2023

Awards & Recognitions

- Outstanding in Practicum - 2026
- Dean's Lister Gold Medal - 2026
- Co-Curricular Gold Awardee - 2026
- Dean's Lister - 2022-2026
- 12th I.T. Skills Olympics IT Quiz Bee 2nd Runner-up - 2023
- Best in Science Award - 2020

Projects

PNP E-P.A.T.R.O.L.: Enhanced Police Activity Tracking and Recording Operational Log

2026

PNP Bacoar City Office

Tech: Node.js, Express, TypeScript, MongoDB, React, Tailwind CSS, Railway

- Developed and deployed a production patrol logging system supporting the daily operations of 200+ police officers across PNP Bacoar City and PNP Santa Rosa City, enabling centralized patrol tracking and operational reporting.
- Engineered full-stack features including secure role-based authentication, REST APIs, geolocation and photo-based activity logging, automated reporting, and cloud deployment using Railway.

Phalanx Cyber Academy: A Gamified Simulation Platform for Cybersecurity Training

2025

University of Perpetual Help System DALTA-Molino Campus

Tech: Python, Flask, Tailwind CSS, Supabase, Vercel

- Led the design and development of a full-stack gamified cybersecurity training platform featuring Red Team vs. Blue Team simulations, XP progression, and scenario-based learning aligned with MITRE ATT&CK techniques.
- Architected a secure and scalable web application with REST APIs, passwordless authentication, role-based access control, an administrative dashboard, and a PostgreSQL backend designed to support up to 50,000 monthly active users.

E-Council: AI-Powered Student Council Management System

2024

University of Perpetual Help System DALTA-Molino Campus

Tech: Python, Flask, MySQL, Google Gemini, Cloudinary, ReportLab

- Designed and built an AI-powered student council management platform that centralized event management, financial tracking, document generation, board resolutions, meeting minutes, and administrative workflows.
- Engineered secure authentication, AI-assisted document generation, Cloudinary-based file management, PDF reporting, and analytics dashboards to reduce administrative workload for student council operations.

Leadership & Activities

Vice President

August 2023 - June 2024

College of Computer Studies Council (CCSC), UPHSD-Molino College of Computer Studies, Bacoar, Cavite

- Represented computer studies students and coordinated academic and student welfare initiatives within the

university.

- Worked with council officers and faculty to plan and execute student events and departmental activities.
- Facilitated communication between students, faculty, and administration to support academic engagement and collaboration.

Treasurer,

September 2022 - June 2023

Junior Philippine Computer Society (JPCS), UPHSD-Molino College of Computer Studies, Bacoar, Cavite

- Managed organizational finances, including budgeting, expense tracking, and financial reporting.
- Coordinated with officers in planning technical events, workshops, and student development programs.
- Maintained accurate financial records to support transparency and organizational accountability.

Professional Development

Online Courses

- AWS AI Practitioner Challenge, Udacity - 2026
- Pre Security Learning Path Certificate, TryHackMe - 2026
- Google Specialization (AI Essentials, Prompting Essentials), Google - 2026
- Google Certified (Educator Level 1 & 2), Google for Education - 2025
- Gemini Certified (University Student, Educator, Faculty), Google for Education - 2025
- edX Verified Certificate for The What and How of Esports Management, HP edX - 2025
- Artificial Intelligence Fundamentals, IBM SkillsBuild - 2024
- Data Analytics Essentials, Cisco Networking Academy - 2024
- Introduction to Data Science, Cisco Networking Academy - 2024
- Introduction to Cybersecurity, Cisco Networking Academy - 2024
- edX Verified Certificate for A Complete Guide to Game Design, HP edX - 2024
- edX Verified Certificate for From Code to Creation: Mastering Game Programming, HP edX - 2024
- Operating Systems Basics, Cisco Networking Academy - 2023
- Computer Hardware Basics, Cisco Networking Academy - 2023
- Networking Basics, Cisco Networking Academy - 2023

Conferences & Technical Programs

- Pilot Batch of Huawei ICT Academy - 2025
- DICT CALABARZON Cybersecurity Caravan - 2024
- Ubaya Online Summer Program 2023: ChatGPT, Artificial Intelligence, & Metaverse for our Daily Life - 2023
- iSITE's 1st National Conference: AI Tools in Education - 2023
- 3rd iSITE Conference: Developing Industry Skills & Technological Advancement through Research - 2023

Technical Webinars & Seminars

- Artificial Intelligence and Its Application - 2024
- Understanding Threats using Cybersecurity Attack Frameworks - 2024
- Grey Wolf Optimization Technique in Machine Learning - 2023
- Deep Fake News Detection - 2023
- Data Analysis using R - 2023
- Modern Technology of Parallel and Distributed Programming - 2022

Workshops

- CompTIA Cloud Essentials+ Workshop - 2022