

# JEROME AVECILLA

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Full-Stack & AI Systems Engineer

## SUMMARY

Full-Stack Developer and AI Systems Specialist with 3+ years of experience building web applications, campus-wide digital platforms, and production-ready systems. Strong foundation in Laravel, Vue.js, React, and cloud infrastructure, now specializing in AI agent architecture, RAG workflows, and LLM integrations. Proven track record of architecting mission-critical platforms processing 5,000+ transactions with zero downtime.

## TECHNICAL SKILLS

- AI & Agentic Systems:** LLM Integration, RAG, Agentic Workflows, Agent Harness, MCP, Fine-Tuning, Python, n8n, Claude Code, Codex, Cursor, Antigravity,
- Core Development:** PHP (Laravel), JavaScript/TypeScript, Vue.js, React, Next.js, Node.js, HTML/CSS, Tailwind CSS, Bootstrap
- Databases & BaaS:** PostgreSQL, MySQL, SQLite, Supabase, Firebase, MongoDB, Drizzle ORM, Eloquent ORM
- DevOps & Tools:** Docker, Git, GitHub Actions (CI/CD), REST APIs, Linux CLI, Postman, Swagger

## WORK EXPERIENCE

**hahahahub.ph | Bulacan, Philippines**

**Jun 2026 - Present**

Founder & Lead Engineer

- Architected and launched the technical infrastructure and product ecosystem from the ground up using Next.js and Docker.
- Integrated modern server-side architectures and automated backend deployment pipelines to support rapid user scaling.
- Actively developing the production features and cross-platform architecture for future expansion.

**AWS Student Builder Group (BuSU) | Bulacan, Philippines**

**May 2026 - Present**

Web Developer & Event Tech Specialist

- Built and deployed the official community platform using Next.js, Supabase, Drizzle ORM, and Resend.
- Designed a membership registration workflow processing 300+ applications in its launch month, featuring automated welcome emails, verifications, and email broadcasts.
- Containerized the platform with Docker to streamline staging and production environments.

**Golden Minds Colleges Inc. | Bulacan, Philippines**

**May 2022- Jan 2025**

Associate Web Developer

- Campus Online Voting System:** Designed and deployed an end-to-end voting platform handling 5,000+ votes with zero downtime. Reduced response times by 30% via database indexing and query optimization while integrating GCash QR and ReCAPTCHA to boost voter turnout by 40%.
- Institutional Web Ecosystem:** Led the migration of legacy infrastructure to a modern Laravel/Vue.js stack, including full DNS configuration and domain migration from .com to an official .edu.ph domain. Reduced admin inquiries by 35% through a dynamic Resource Hub and decreased page load times by 25% across 6,000+ monthly pageviews.
- SIMS & Automated Scheduling Engine:** Built a conflict-detection scheduling engine synced with payroll logic, cutting administrative processing time by 40%. Standardized development workflows using Docker.

## PROJECTS & INITIATIVES

**EchoVax: Voice-Assisted Patient Intake & Clinic System (Capstone Project)**

Project Lead & Lead Developer

*Target Launch: Sep 2026*

- AI & NLP Integration:** Engineered a voice-assisted intake module using Voice-to-Text and Natural Language Processing (NLP) to extract structured clinical fields from Taglish and English transcripts.
- Full-Stack Architecture:** Architected and dockerized an pnpm-workspaces monorepo for an offline-first PWA featuring automated vaccination scheduling (PEP/PrEP), automated SMS/Email follow-ups, and real-time inventory tracking.
- Team Leadership & Security:** Led a 5-member team in building localized clinic workflows, enforcing strict human-in-the-loop review guardrails for all AI-assisted data.

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| <b>Salesforce Developer (Virtual Internship)</b>                                                                                                                                                                                                                                                                                         |                            |
| Participant & Developer                                                                                                                                                                                                                                                                                                                  | <i>Aug 2025 - Dec 2025</i> |
| <ul style="list-style-type: none"><li>Completed a virtual internship focused on enterprise application development, mastering Apex, Visualforce, Lightning Web Components (LWC), and Agentforce Essentials.</li><li>Built declarative automation workflows and optimized data security models within the Salesforce ecosystem.</li></ul> |                            |

EDUCATION & CREDENTIALS

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Bachelor of Science in Information Technology</b>                                                                                                                                                              | <b>Jul 2023 - Aug 2027</b> |
| Bulacan State University - Main Campus                                                                                                                                                                            |                            |
| <ul style="list-style-type: none"><li>Specialization in Web and Mobile Application Development (WMAD)</li><li>Leadership &amp; Activities: AWS Student Builder Group, Microsoft Student Community (MSC)</li></ul> |                            |
| <b>Technical Vocational Livelihood in Information and Communication Technology</b>                                                                                                                                | <b>Aug 2021- Jun 2023</b>  |
| Golden Minds Colleges of Sta.Maria Bulacan Inc.                                                                                                                                                                   |                            |

AWARDS & ACHIEVEMENTS

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|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <ul style="list-style-type: none"><li><b>Hackathon Champion</b> - BulSU 13th IT Congress</li></ul>                               | <b>May 2023</b> |
| <ul style="list-style-type: none"><li>Best Capstone of the Year - Research and Innovation (SHS, Golden Minds Colleges)</li></ul> | <b>Apr 2022</b> |