

# IVAN BLAISE R. GONZALES

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## WORK EXPERIENCE

- Jr. Software Engineer, UBX Philippines** (Metro Manila, hybrid) 2025 - Present
- Autonomously developed and maintained backend services supporting distributed systems mainly using TypeScript, Node.js, NestJS, and PostgreSQL, with supervision coming in the form of feedback.
  - Designed and extended RESTful APIs to support real-world integrations and high-volume local government data transactions.
  - Implemented Docker-based local development environments to streamline deployment and ensure consistency across teams.
  - Participated in code reviews, performance optimization, and architecture discussions to improve scalability and maintainability.
  - Applied clean code and clean architecture principles, improving system reliability and service uptime across active projects.
  - Explored microservice-based architectures and Redis Queues through team discussions and a handful of assigned development tickets.
- Editor, LifeSpring Chiropractic** (USA, remote) 2020 - 2021
- Produced and edited weekly patient story videos to enhance brand visibility and audience engagement.
  - Designed visual assets and animations aligned with brand guidelines to maintain consistent digital presence.
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## EDUCATION

- Bachelor of Science in Computer Engineering, University of the Philippines Diliman** 2020 - 2025
- Magna Cum Laude — GWA: 1.39 / 1.0
- Consistent College Scholar and Dean's Lister; recipient of the DOST Merit Scholarship.
  - Undergraduate Thesis: *A Web-Based Testbed with Spatial Visualization Capabilities for IoT-Based Smart Systems.*
  - Technologies Used: JavaScript, Node.js, Express.js, REST APIs, Three.js, Vite, GSAP, Git, SQL/PostgreSQL.
- STEM Strand, Philippine Science High School Cagayan Valley Campus** 2014 - 2020
- Graduated with High Honors — GWA: 1.34 / 1.0
  - Academic Excellence Award in Computer Science
  - Perpetual Director's Lister for multiple years
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## EXTRA CURRICULAR

- Overall Head, Blockbooster 50** 2024
- Led a team of 30 in organizing and performing a 3-day quiz show in partnership with Slimmers World SM North EDSA, Mang Inasal, and Accenture that had 154 registered student participants.
  - Particular focus on heading Creatives and Tech/Operations.
- Creatives & Publicity Head, Maskipaps: The Crossover 2023** 2023
- Facebook; reached over 3 million users, made over 10,000 new page followers, with the best post reaching 1.3 million users with over 18,000 reactions.
  - Designed and created multiple publication materials such as photos, videos, and banners.
  - Led a team of 5 in designing the branding kit of the event as well as in planning and delegating the publication material to be published.

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## PROJECTS

### Real Property Tax Account Register (RPTAR) System

Backend Development — *UBX Philippines (for a Local Government Unit project)*

- Engineered backend modules for a large-scale local government system, handling structured data and REST API endpoints using TypeScript, NestJS, TypeORM, and PostgreSQL.
- Refined database schema and migration scripts for scalable entity management and improved query performance.
- Utilized Docker for containerized development and testing, preparing the system for future deployment in production environments.

### Himig: an AI-Powered Mood-Based Spotify Playlist Generator

Fullstack Development — *Personal Project*

- Built an AI-powered playlist generator that combines user mood inputs with their Spotify top artists to create highly personalized playlists.
- Integrated the Spotify Web API for authentication (OAuth), playlist creation, and retrieval of user listening data.
- Developed a backend service using FastAPI and Google's Gemini API to transform mood prompts into contextual playlist recommendations.
- Designed and implemented an interactive 3D frontend using TypeScript and React Three Fiber, enabling users to visualize and trigger playlist generation in an immersive interface.

### Google Calendar - Model Context Protocol Integration

Backend Development — *UBX Philippines (assigned by team lead)*

- Developed a backend service that integrated Gemini with the Google Calendar API, enabling automated schedule management via natural language input.
- Designed and implemented API workflows for event creation, schedule retrieval, and data synchronization using function-calling pipelines.

### A Web-Based Testbed with Spatial Visualization Capabilities for IoT-Based Smart Systems

Full-stack Development – *Undergraduate Project, University of the Philippines Diliman*

- Designed a full-stack web platform with a 3D interactive dashboard to monitor and control IoT devices in real time.
- Developed the backend REST API using Node.js and Express.js, with PostgreSQL for data persistence.
- Integrated real-time communication between sensors, actuators, and the frontend visualization layer.

### Personal Web Portfolio

Frontend Development — *Deployed via Netlify & GitHub*

- Designed and developed a React-based portfolio with minor CI/CD integration via GitHub for automated build and deploy workflows.
- Followed modern frontend and backend integration practices for scalability and responsiveness.

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## ADDITIONAL INFORMATION

- **Non-Programming Technical Skills:**
  - Video and Photo Editing (Adobe Suite/Canva)
  - Documents and Presentations (Google Suite/ Microsoft Suite/ Canva)
- **Languages:**
  - English (proficient)
  - Filipino (native)
- **Awards:**
  - Distinction – Canadian Senior Mathematics (2019)
  - High Distinction – International Competitions and Assessment for Schools (Computer Science, 2016)
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