

George Giosue Peraldo Namoc

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SUMMARY

Systems Engineering graduate from Universidad Nacional de Trujillo (2024), with experience designing and implementing microservice platforms with NestJS, TypeScript and PostgreSQL under hexagonal architecture, with frontends in Next.js and React, as well as full stack systems with Angular, .NET (C#) and SQL Server. Strong in API design, data modeling, SQL query optimization, integrations with external systems via REST/SOAP (SAP, SimCapture) and CI/CD pipelines (GitHub Actions, Azure DevOps, Docker) with production observability. Complementary knowledge in computer vision (OpenCV, TensorFlow) for OCR/deep learning. Author of three published npm packages: simcapture-sdk, a typed client for the SimCapture API (clinical simulation platform), and MCP servers for the Computrabajo job board and the Emtrafesa transportation system aimed at AI assistants. Used to working in teams under agile methodologies, communicating with users and non-technical stakeholders to translate business requirements, documenting technical decisions and reviewing code with peers. Proficient in TypeScript, C#, Python, Java, Kotlin, PHP, Rust and SQL.

EDUCATION

Universidad Nacional de Trujillo

B.Sc. in Systems Engineering

Trujillo, PE

Jun. 2020 – Dec. 2024

Graduated **first in class** and recipient of the PRONABEC scholarship for academic excellence.

EXPERIENCE

Software Engineer

Jun. 2026 – Present

Universidad Peruana Cayetano Heredia

La Molina, PE

- Build, alongside the team, the platform of the Interdisciplinary Center for Advanced Simulation: 9 NestJS microservices over TCP transport behind an HTTP API Gateway, with hexagonal architecture, one PostgreSQL database per service (Prisma) and a Next.js 16/React 19 frontend.
- Implement real-time control of simulation equipment (manikins/haptics) via WebSocket (socket.io), 3D views of environments with three.js/react-three-fiber and a live notifications microservice.
- Lead the bidirectional integration with SimCapture, publishing simcapture-sdk on npm (typed TypeScript client with token caching and retry on 401) and the write-back that syncs locally created bookings against the external API.
- Build the reporting and KPI module for equipment and room utilization: embedded Metabase dashboards with JWT signing, DOCX report generation and Excel export.
- Design and implement the end-to-end warehouse microservice (items, batches, stock, inventory movements, assets with maintenance plans and phased room setup), with traceability through GS1 DataMatrix codes generated in the backend and images on S3.
- Develop the field app for simulation technicians on Zebra TC15 terminals: DataMatrix scanning in keyboard-wedge mode to move assets between warehouses and locations, and incident reporting through gestures (device shake via DeviceMotion), voice dictation and photos.
- Containerize the services with multi-stage Docker and maintain CI/CD pipelines in GitHub Actions that publish versioned multi-architecture images (amd64/arm64) to Docker Hub, deployed on-premise with Docker Compose and Caddy, and instrumented observability with an in-house npm package (pino/Prometheus) on a Prometheus/Loki/Grafana stack.

Full Stack Developer

Nov. 2025 – May 2026

E. Partners Auditores & Consultores Business S.A.C

Trujillo, PE

- Developed accounting, treasury, academic management and asset management modules within the internal ERP of Universidad César Vallejo, implementing the frontend in Angular and the backend in .NET (C#) over SQL Server under a hexagonal architecture.
- Took part in developing the ERP for Inmobiliaria Zarpan from scratch, implementing the frontend in Angular 21 and the backend in .NET 8 with SQL Server, creating real estate management modules with hexagonal architecture.
- Designed and implemented CI/CD pipelines in Azure DevOps with automated deployments and a branching strategy (GitFlow), cutting release times and eliminating error-prone manual deployments.
- Solved complex requirements by applying advanced Angular patterns (RxJS, lazy loading, reusable components) and optimized T-SQL queries, improving frontend performance and data consistency across modules.

- Worked with functional analysts and accounting stakeholders to translate business requirements into robust features, delivering frequent iterations under agile methodologies.

Full Stack Developer

Apr. 2024 – Oct. 2025

FMSAC

Trujillo, PE

- Developed an Android app and PHP backend for MODASA that centralized maintenance management of power generator sets, including multi-factor authentication (MFA) and automated work order scheduling.
- Optimized critical SQL queries of the scheduling module, cutting response time from 60s to 2s (~30x improvement) and improving the experience of field technicians.
- Migrated the technicians' app to Android 12L, ensuring full compatibility with the new tablet fleet and eliminating production crashes.
- Designed and deployed an international quotation platform with ReactJS/ExpressJS (generator sets, cables, switchgear, transformers) integrated with SAP via REST/SOAP APIs, with dynamic PDF generation and reports over large data volumes.
- Designed and developed a bulk import system for technical data from Excel/ODS to MySQL, implementing a REST API with Elysia (TypeScript/Bun) and a processing core in Python with pandas that automated the loading of generator set catalogs, generating optimized SQL scripts with transactions and batch inserts.

PROJECTS

simcapture-sdk | *TypeScript, Bun, tsup, GitHub Actions* Jun. 2026 – Present

- Typed client for the SimCapture API published on npm, with hexagonal architecture, token caching, automatic retry on 401 and dual ESM/CJS build.

MCP Computrabajo | *TypeScript, Model Context Protocol, Cloudflare Workers* Mar. 2026 – Present

- MCP server for the Computrabajo job board (6 countries), published on npm and deployed as a remote server on Cloudflare Workers with OAuth and per-connection encrypted credentials; exposes job search, profile reading and automated applications.

MCP Emtrafesa | *TypeScript, Model Context Protocol, Cloudflare Workers* Jul. 2025 – Present

- MCP server for the Emtrafesa transportation system published on npm and deployed as a remote server on Cloudflare Workers: terminals, schedules, seat availability and purchased tickets for AI assistants.

FiseSMS | *Python, FastAPI, Android SDK, PyTorch, Docker* Oct. 2023 – Dec. 2024

- Android app with real-time AI to automate FISE voucher processing through OCR.

VisualBacter | *TensorFlow, Next.js, Docker* Jun. 2024

- Detection of foodborne diseases with convolutional neural networks.

Consulta CEJ | *Selenium, TypeScript, MongoDB, Azure Functions, Next.js* Mar. 2024

- Subscription portal for automated access to Peruvian court case files.

TECHNICAL SKILLS

Languages/Frameworks: Python, Java, Kotlin, TypeScript, PHP, Rust, SQL, NestJS, Angular, FastAPI, Express, Next.js, React, Prisma, TensorFlow, PyTorch, OpenCV

Tools/DevOps/Testing: Git, Docker, Docker Hub, GitHub Actions, Azure, Azure DevOps, Azure Functions, Cloudflare Workers, Dokploy, PostgreSQL, SQL Server, Prometheus, Grafana, Metabase, Pandas, NumPy, Selenium, Vitest

CERTIFICATIONS

Microsoft Certified: AZ-900 Aug. 2026

Microsoft

Official certification in cloud fundamentals: core Azure services, compute and networking, identity and security, governance and cost models. [Verify credential](#)

AWARDS

Institutional Recognition Mar. 2025

Universidad Nacional de Trujillo

Trujillo, PE

Granted as **top of the graduating class** in the Systems Engineering program.

Retention Scholarship Recipient

PRONABEC

Aug. 2021

Trujillo, PE

Full national scholarship awarded by the Peruvian government for academic excellence.

LANGUAGES

English: A2 CEFR

Spanish: Native