



JOHN NICHOLS RANARA

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Versatile and results-driven Principal Software Engineer with over a decade of professional experience architecting desktop applications, automation tools, and backend frameworks. Proven expertise leading technical implementations across diverse ecosystems, including industrial IoT management systems, native Android infrastructure, and enterprise-grade tools. Adept at transforming high-level system requirements into highly efficient, scalable, and secure codebases.

EXPERIENCE

JUL 2019-
PRESENT

SOFTWARE DEVELOPER – CLIMED SOLUTIONS, SWITZERLAND

- Contributed to the core development of PIIOX, an open, modular platform designed for industrial control and automation systems.
- Developed and optimized modules for TESSA, an automation framework for executing complex scientific software applications.
- Architected and deployed an internal enterprise resource planning (ERP) system to streamline company operations.
- Built a centralized management utility to monitor, provision, and maintain client IoT devices securely.
- Engineered multiple proprietary internal applications for industrial partner systems to improve data workflows.
- Designed and developed automated chatbots, workflow pipelines, and professional client web platforms.
- Produced technical promotional assets and digital media materials for diverse business clients.

NOV 2016-
AUG 2018

ANDROID DEVELOPER – HYPERWORKS I.T. SOLUTIONS, TACLOBAN CITY

- Engineered native Android applications focused on Disaster Risk Reduction (DRR) and education for Save The Children Philippines and DepEd.
- Facilitated features-definition workshops, managing stakeholders and spearheading local data collection initiatives.
- Led technical consultations and alignment meetings with key department officials to map software requirements.
- Delivered comprehensive technical support documentation and training frameworks for deployment teams.
- Developed web interfaces, established application hosting environments, and managed distribution assets.

JUL 2016-
DEC 2016

ON THE JOB TRAINING – DEPARTMENT OF AGRARIANS REFORMS, TACLOBAN CITY

- Designed and developed a custom Document Management System (DMS) from scratch to replace a legacy, uncompleted application.
- Optimized database structures to efficiently handle large data volumes, enabling faster document referencing and hardware scanning integration.
- Conducted training seminars and provided technical documentation to ensure smooth adoption by department personnel.
- Executed data migration strategies to extract records from old storage systems into the new relational architecture.
- Provided post-deployment technical support, system maintenance, and performance tuning during the rollout phase.

EDUCATION

2017

AMA COMPUTER LEARNING CENTER COLLEGE – TACLOBAN CITY

Bachelor of Science in Computer Science

2013

LEYTE NATIONAL HIGH SCHOOL – TACLOBAN CITY