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SUMMARY OF QUALIFICATIONS

- **Full-Stack Development & System Architecture:** Experienced in designing and developing scalable backend and frontend systems using RESTful APIs, distributed databases, and modern frameworks. Skilled at balancing innovation with performance, security, and maintainability.
- **Infrastructure Engineering & Self-Hosted Ecosystems:** Builds and maintains self-sufficient infrastructures capable of running production environments independently of major cloud providers. Experienced in deploying private registries (Docker/Harbor), source control systems (Gitea), and CI/CD servers for cloud-grade scalability at reduced costs.
- **Cloud & SaaS Deployment Experience:** Hands-on with hybrid cloud and SaaS platforms (Render, Vercel, Railway, Heroku) and cloud-equivalent infrastructure using VPS, Proxmox, Docker Compose, and Kubernetes. Focused on cost-efficient architecture and automation.
- **DevOps, Automation & System Administration:** Proficient in Linux server administration, Proxmox virtualization, network management, and CI/CD pipeline automation. Develops monitoring, deployment, and backup systems that enhance uptime and operational efficiency.
- **R&D & Technology Innovation:** Conducts research on technology stacks and system architectures to improve software performance, reliability, and logging. Creates prototypes, evaluates tools, and develops documentation to support optimized and maintainable solutions.
- **Software Development Leadership:** Leads multi-role development teams, defines system standards, and enforces Git-based workflows. Experienced in mentoring developers, establishing documentation systems, and managing collaborative repositories.
- **Project & System Design Management:** Maintains and oversees key systems, including advertisement management, ticketing, and community-based cloud platforms. Plans technology stacks, structures systems, and assesses solutions to ensure stability, performance, and maintainability.
- **AI & Automation Workflows:** Experienced in setting up self-hosted automation platforms such as n8n and ActivePieces, configuring workflows, and integrating automation with applications and infrastructure. Implements AI-driven tools and scripts to streamline repetitive tasks, optimize processes, and improve system efficiency.
- **Security & Network Reliability:** Implements firewall-based security, manages access controls on Proxmox and Linux servers, and leverages Cloudflare for DNS and network protection to ensure reliable and secure infrastructure.
- **Open-Source Contributions & Community Engagement:** Creates and experiments with custom tools and prototypes, including file-based databases, DevOps utilities, and development frameworks, for learning, automation, and performance improvement. Demonstrates technical independence, initiative, and continuous exploration of new technologies.

TECHNICAL SKILLS

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| <ul style="list-style-type: none">• Programming Languages
Javascript (Node.js), Python, Java | <ul style="list-style-type: none">• Operating Systems
Windows 11, Linux (Ubuntu), Kali Linux |
| <ul style="list-style-type: none">• Database
MongoDB, MySQL, SQLite | <ul style="list-style-type: none">• Networking Tools
Networking Tools (ping, netstat, ifconfig), nmap, curl, nginx |
| <ul style="list-style-type: none">• Framework and Libraries
TailwindCSS, Bootstrap, Express, React, Next.js, Capacitor, Electron.js, shadcn/ui | <ul style="list-style-type: none">• DevOps
Git, Github, Github Actions, Docker, Docker Swarm, Monit, Kubernetes, Helm, Terraform, harbor, ansible, ArgoCD, Jenkins |
| <ul style="list-style-type: none">• Systems & Virtualization
Linux Server Installation & Configuration, Proxmox VE | <ul style="list-style-type: none">• Cloud & Infrastructure
Edge Networking & Security (Cloudflare Zero Trust & WARP), Cloudflare (Workers, Pages, D1, Secret Store), SaaS Deployment Platforms (Render, Vercel, Heroku) |
| <ul style="list-style-type: none">• AI Automation
Workflow Automation (n8n, ActivePieces), AI Agent Integration, API-based Task Orchestration | <ul style="list-style-type: none">• Web & SEO Optimization
Performance optimization (lazy loading, caching, pwa), Google Search, Bing Search |

JOB EXPERIENCES

Senior Software Engineer | R&D Lead | DevOps Engineer

Wayne Enterprise Solution
2025 – Present

January

❖ Infrastructure & Automation (Proxmox, Cloud, VPS & On-Premise Servers)

- Managed self-hosted VPS, Proxmox VMs, and on-premise servers, optimizing performance, uptime, and security.
- Deployed and maintained scalable storage solutions using MinIO on Docker Compose and MongoDB on dedicated servers.
- Configured and operated Kubernetes clusters (1 master + 3 worker nodes) for containerized applications.
- Implemented load balancing with Nginx for high availability and traffic distribution.
- Designed and managed virtual networks with firewall rules using Proxmox VE and Ubuntu UFW.
- Managed access and permissions using Proxmox roles and Linux users/groups.
- Performed manual infrastructure setup and configuration with custom scripts and best practices.
- Set up monitoring and alerting systems using Prometheus and Grafana with Docker Compose to visualize and track system metrics.

❖ CI/CD & Deployment (GitHub Actions, Docker, Cloud Servers, Nginx)

- Designed CI/CD pipelines with GitHub Actions, automating builds, tests, and deployments across staging and production.
- Deployed applications in non-dockerized environments on VPS for lightweight setups and in dockerized environments on on-premise servers for consistency and scalability.
- Dockerized applications for on-premise deployments and managed them on Kubernetes clusters using Helm charts.
- Utilized a self-hosted Docker registry (Harbor) for secure image storage and distribution.
- Configured Nginx as a reverse proxy for secure, high-performance hosting.
- Implemented GitOps workflows using ArgoCD, installing ArgoCD on Kubernetes clusters, configuring applications to sync from Git repositories, and automating deployment of manifests and Helm charts.
- Automated infrastructure provisioning, configuration, and application deployments using Ansible, including playbooks for Kubernetes setup, Docker image deployment, and system hardening.
- Reduced deployment errors and release time through a combination of standardized workflows, containerization, and orchestration.

❖ Development and Automation (Auto CLI, DevOps Tools, Task Management)

- Integrated Auto CLI, an open-source automation tool, to streamline development workflows.
 - Automated launching of multiple servers and applications.
 - Configured IDE, editors, and terminals for consistent developer environments.
 - Improved team efficiency by 40% through task execution and background process management.

❖ Development & Technical Leadership

- Led the development of internal APIs, automation tools, and enterprise-grade projects, improving system integration, efficiency, and scalability.
- Oversaw team management and collaboration, setting up structured workflows and promoting best practices for development.
- Established and enforced Git-focused workflows (GitHub, GitFlow) to ensure consistent code management, version control, and smooth collaboration across the team.
- Authored technical guidelines and documentation for APIs, internal tools, and project processes, supporting onboarding and consistent development standards.
- Reviewed and enhanced system architecture to ensure scalability, maintainability, and security compliance.
- Troubleshoot complex production issues, identified root causes, and implemented long-term fixes to maintain stability and reliability.
- Mentored junior developers and team members, providing guidance on coding standards, best practices, and problem-solving.

❖ Information Security

- Strengthened application security through code obfuscation, build-time hardening, and infrastructure configurations.
- Integrated Cloudflare for DNS management and DDoS protection, enhancing availability and mitigating threats.
- Ensured reliable uptime and disaster recovery readiness through proactive infrastructure management.

❖ Key Achievements

- Successfully scaled multiple enterprise-grade applications with minimal downtime.
- Spearheaded the adoption of automation tools that improved team productivity and deployment efficiency.
- Played a critical role in R&D and system architecture design, influencing long-term technical strategy.
- Led and mentored team members, providing guidance on best practices, technical training, and workflow improvements, fostering collaboration and enhancing overall development quality.

Lead Software Engineer

Quantum Cloud Corporation
2025

July 2024 – January

❖ Technical Leadership & Project Development

- Led the development of the Barangay Cloud Computing System (BCCS), ensuring scalability, efficient data handling, and robust system architecture.
- Developed the Commercial Advertisement Management System (CAMS) and Project Management System (PMS) to streamline business operations and advertising automation.
- Established software development workflows and DevOps practices, creating structured, efficient, and scalable development pipelines.

❖ System Administration & Infrastructure Management

- Managed VPS deployments, server configurations, and infrastructure scaling for reliable operations.
- Designed and implemented CI/CD pipelines to automate testing, builds, and deployments.

❖ Key Achievements

- Implemented role-based authentication and access control, enhancing application security and compliance.
- Developed real-time dashboards for monitoring server health, system analytics, and business metrics.
- Resolved complex system issues, optimized code performance, and maintained software stability across multiple projects.

Software Engineer

Philippine Innovation Hub Academy Corporation
2024

April 2024 – July

❖ Project Development

- Designed and implemented a Human Resource Information System (HRIS) to streamline internal HR workflows and reduce manual processes.
- Oversaw deployment processes to ensure smooth rollouts with minimal downtime.
- Collaborated with stakeholders to gather requirements and translate them into functional features, improving operational efficiency.

❖ System Administration

- Managed VPS deployments, server configurations, and routine system maintenance, ensuring reliable uptime.
- Implemented infrastructure scaling strategies to support growth and optimize performance.
- Configured CI/CD pipelines for automated testing and deployments, accelerating release cycles.
- Applied monitoring and logging solutions to proactively detect and resolve system issues.

❖ Key Achievements

- Successfully delivered an HRIS system that improved internal operations and reduced manual tasks.
- Streamlined server management and monitoring processes, ensuring high availability and system reliability.

Frontend Developer Intern

Gateway Visa Solution
– May 2023

January 2023

❖ HRIS Employee Portal Development

- Developed the employee portal frontend for the company's HRIS, improving internal workflow efficiency.
- Learned and applied Vue.js to create responsive and interactive UI components.

- Collaborated with backend developers using Laravel to integrate RESTful APIs for seamless data flow.
- Assisted in debugging, testing, and refining features, contributing to a stable and user-friendly application.

❖ Key Achievements

- Delivered a fully functional employee portal frontend within the internship period.
- Improved UI responsiveness and accessibility, resulting in a smoother user experience.
- Successfully integrated backend APIs, enabling real-time data updates and accurate HR information.
- Contributed to team workflow improvements, reducing feature development and bug-fixing time.

Open Source Developer

Hobbyist & Contributor
2019 – Present

August

❖ Dev Tools & Libraries

- Developed Pydaffodi (Python) and jsdaffodil (JavaScript) – automation frameworks for VPS setup, server configuration, and deployment streamlining.
- Built a collection of custom developer tools, including a NOSQL file-based database engine (MingleDB), a PHP web server library (Narciso), and various command-line utilities for automation and process management.

❖ Networking & System Utilities

- Built an SSH tunnel tool for reverse SSH port forwarding, enabling secure remote access and local server testing.

❖ Systems Engineering & Learning by Building

- Explored and implemented the core concepts of databases, networking, and web architecture by developing hands-on systems from scratch.

❖ Key Achievements

- Created tools that are actively used for automating server setups and network management.
- Improved efficiency and reliability for developers and system administrators using open-source solutions.
- Contributed to the open-source community by providing reusable tools and scripts, demonstrating initiative and technical problem-solving skills.
- Continuously focused on learning and skill development to prepare for advanced roles in software engineering, system architecture, and DevOps automation.
- Learned and applied low-level system concepts through practical engineering, forming a strong foundation in system architecture, DevOps, and cloud-native design principles.

SYSTEM PROJECTS

Human Resource Management System

Philippine Innovation Hub Academy Corporation

- Developed and launched a centralized, web-based HRIS to digitize and manage critical functions: employee records, payroll processing, and performance tracking.
- Designed management dashboards for performance tracking, providing leadership with data-driven insights for faster employee appraisals and talent development decisions.

Commercial Advertisement System

Quantum Cloud Corporation

- Individually developed and deployed the end-to-end commercial advertising platform, handling all design, development, and system reliability functions.
- Engineered and optimized the core backend data pipelines for efficient ad inventory retrieval, which reduced ad serving latency and improved system performance.
- Built the advanced ad serving and dynamic targeting engine, enabling precise placement of commercial content to maximize business click-through rates (CTR).
- Integrated a dedicated Content Delivery Network (CDN) for client ad assets, significantly reducing ad load times and implementing real-time reporting dashboards.

Project Monitoring System

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- Developed a dedicated monitoring system for Project Bedding to manage and track the overall project lifecycle, including procurement status, document submissions, and project progress.
- The system enables real-time updates on whether required materials have been purchased, delivered, or pending approval.
- Integrated document submission and validation features ensure all project files are properly recorded and verified within the system.
- Provides status indicators for each project phase, allowing management to easily monitor completion levels and identify items requiring follow-up or approval.

Ticketing Management System

Wayne Enterprise Solution Corporation

- Set up a simple three-level access system (RBAC) that correctly managed permissions for Employees, Department Admins, and Superadmins.
- Built automated ticket routing that directed 95% of tickets to the right department admin immediately, speeding up the initial response time.
- Created a core admin tool that let Department Admins independently manage their tickets, track team work, and solve specific department problems.
- Added clear reporting features for Superadmins to easily check system performance, track resolution times, and monitor overall efficiency.

Barangay Cloud Computing System

Quantum Cloud Corporation

- Directed the platform's core technical strategy and architectural design, successfully integrating multiple large-scale systems (e.g., community feeds and profile management).
- Managed and optimized the entire DevOps pipeline (CI/CD) and cloud infrastructure, ensuring 99.9% uptime and stability for a high-volume community-facing application.
- Engineered highly scalable RESTful APIs and the secure central database, guaranteeing data integrity and performance for thousands of concurrent users.
- Drove platform reliability by defining the technical roadmap, leading troubleshooting efforts, and integrating user feedback to achieve enterprise-level quality and adoption.

Centralized Barangay Intercom & Communication System

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- Engineered a real-time, UDP-based intercom and communication system connecting barangay hall command centers with multiple outpost stations.
- Developed a Master-Worker architecture using Python (Relay/Workers) and Java (GUI Master Node) to ensure reliability and modularity. The workers are deployed on Orange Pi devices running Armbian, providing lightweight and distributed edge processing.
- Implemented broadcast, direct call, and alert features across nodes using socket programming, enabling seamless communication in a star topology.
- Delivered a scalable, low-latency networking solution that improved coordination and operational efficiency for local government operations.

WEBINARS AND CERTIFICATES

Basic Computer Networking

Department of Information and Communications Technology (DICT)

Software Entrepreneurship: A Guide to Building and Scaling a Successful Tech Company

Quezon City University

TABLETOP DISCUSSION ON CYBERSECURITY HYGIENE: CyberSAFE (Self Awareness Foundation Exercise)

Department of Information and Communications Technology (DICT)

REFERENCES

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