

Patrick James Dionisio

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PROFESSIONAL SUMMARY

Software Developer with experience in a network operations environment, focused on building automation tooling, backend services, and infrastructure-related workflows. Strong in Python development, containerized applications, and observability systems. Experienced in designing internal tools and automation pipelines that improve system reliability, operational efficiency, and scalability. Focused on bridging software engineering and network operations through practical, production-ready automation and systems development.

EXPERIENCE

Software Developer – Network Automation Engineer

May 2025 – Present

Amdocs Philippines

BGC, Taguig City, Philippines

- Designed and developed Python-based operational tooling and backend services within the network team for configuration backups, health checks, API integrations, and operational analysis, improving workflow efficiency and reducing repetitive manual tasks.
- Developed firewall policy extraction and validation workflows across hundreds of rules and multiple firewall platforms within network operations, reducing policy analysis turnaround from weeks to seconds through reusable automation pipelines.
- Implemented a cache-based firewall auditing and filtering service for network operations that enabled near real-time rule lookups, minimizing redundant API requests and eliminating repetitive manual extraction workflows.
- Built an end-to-end observability pipeline for network monitoring that automated iPerf and MTR data ingestion, aggregation, and analysis into a time-series database and dashboards, enabling centralized monitoring and alerting while replacing manual connectivity diagnostics.
- Contributed to an AI initiative within the network team by implementing backend integrations for AI-assisted operational workflows via a centralized orchestration API, enabling a team-specific web interface with a fallback local UI for operational resilience. The system supported agent execution, tool routing, and API-driven automation for health checks, log analysis, and network operations.
- Deployed and maintained containerized automation services using Docker, Semaphore, Ansible, and Git-based workflows within network operations, reducing repetitive operational tasks from over 30 minutes to seconds through centralized automation pipelines.

Product Development Intern

Jun 2024 – Aug 2024

Bridge360 IT Solutions

Makati City, Philippines

- Collaborated with fellow interns to design, develop, and document a responsive web application using the MERN stack, with mobile access via Progressive Web App (PWA) support.
- Redesigned and optimized the database schema to improve query efficiency, enforce data integrity, and support scalable file and image handling for faster resource access and storage.
- Implemented RESTful API endpoints and backend services to enable reliable system functionality and smooth integration between components.

SKILLS

Programming: Python, Java, JavaScript/TypeScript, C++, C#

Backend / Systems: Node.js, Spring Boot, FastAPI

Databases: MySQL, MongoDB

DevOps / Infrastructure: Docker, CI/CD, Ansible, Semaphore, Git, Linux

Observability: Grafana, InfluxDB, Time-series monitoring

Frontend (supporting): React, Angular, HTML, CSS

EDUCATION

Mapua University (Magna Cum Laude)

Aug 2021 – Jan 2025

Bachelor of Science in Computer Science, Major in Application Development

Makati, Philippines

PROJECTS

- Mapua Tabletop Gamers Website** | *Bootstrap, PHP, MySQL* May 2024
- Collaborated with a team to develop a website for a student organization, implementing features such as reservation system, rental management, inquiry handling, and notification services.
 - Leveraged short polling for real-time notification services and optimized the database for scalability and performance.
- Carehub Website** | *Next.js, Tailwind CSS, Spring Boot, WebSocket, MySQL, Docker* Mar 2024 – May 2024
- Directed a team to build a caregiver platform with real-time chat (Spring WebSockets + STOMP) and JWT-based authentication for secure access.
 - Implemented core features for service listing, profile management, and real-time job notifications.
- Dog Adoption Application** | *Angular, Bootstrap, Spring Boot, Android* Oct 2023 – Feb 2024
- Collaborated with two peers to design and develop a dog adoption platform for users to manage profiles, browse available dogs, and synchronize adoption requests in real-time.
 - Developed Android app (Java), backend services (Spring Boot), and website (Angular + TypeScript) for a complete cross-platform solution.

CERTIFICATIONS

- AWS Certified Cloud Practitioner** May 2026
Amazon Web Services Training and Certification
- AWS Academy Graduate - AWS Academy Cloud Foundations** Jul 2024
Amazon Web Services Training and Certification
- Software Security for Web Applications** Mar 2024
Coursera
- Software Development Processes and Methodologies** Jan 2023
Coursera
- Engineering Practices for Building Quality Software** Mar 2023
Coursera