

Neville Camilleri



Senior Platform & Systems Engineer | Site Reliability |
Polymath Innovator | AI & Bio-inspired Systems

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PROFESSIONAL SUMMARY

Platform Lead Engineer with **15+ years** building production systems, microservices architectures, and cloud-native infrastructure across high-traffic platforms. Hands-on expertise in **Kubernetes, CI/CD, reliability engineering, and data pipelines on AWS & GCP**, using **Java / Spring, Python, React, and TypeScript**. Combines deep technical implementation with team leadership, mentoring, and production reliability ownership. Expanding expertise into **scientific data platforms and healthcare technology**, applying platform engineering skills to regulated, data-intensive environments.

CORE COMPETENCIES

Platform Architecture Microservices & APIs Cloud Infrastructure
Kubernetes & Containers CI/CD & DevOps Production Reliability
Data Pipelines Monitoring & Observability Cloud Cost Optimisation
Engineering Leadership Agile / Scrum Full-Stack Development

PROFESSIONAL EXPERIENCE

Platform Lead Engineer May 2022 – Present

CasinoGrounds.com

- Hands-on platform architecture across backend services, cloud infrastructure, and DevOps pipelines for a high-traffic digital platform serving millions of monthly users.
- Designed and maintained scalable microservices on **Java 21 / Spring Boot**, achieving 99.9% uptime through deep technical involvement in code, deployment, and incident response.

TECHNICAL SKILLS

Languages

Java 21, Python 3.x (8+ yrs), TypeScript, JavaScript, Angular, React, C#, SQL

Cloud & DevOps

AWS, GCP, Kubernetes (GKE), Docker, Ansible, Jenkins, GitHub Actions, CI/CD

Data & Infrastructure

PostgreSQL, MySQL, MongoDB, Redis, Neo4j, ETL Pipelines, REST APIs, GraphQL

Frameworks

Spring Boot, FastAPI, Flask, React, Django, Hibernate

Monitoring & Testing

Prometheus, Grafana, Cloud Monitoring, JUnit, Mockito

CERTIFICATIONS

AWS Solutions Architect – Associate
(In Progress)

- Implemented Kubernetes-based deployment strategy on **GCP (GKE)**, driving container orchestration, auto-scaling, and cost optimisation that reduced cloud spend by 25%.
- Built production back-office systems using **TypeScript & React**, enabling data-driven operational decisions.
- Established CI/CD pipelines with automated testing, **Prometheus/Grafana** monitoring, and alerting dashboards — owning production reliability end-to-end.
- Mentored engineers, conducted code reviews, and drove engineering best practices while remaining a deep technical contributor.

Backend Software Engineer

Sep 2020 – May 2022

CasinoGrounds.com

- Upgraded core microservices from Java 8 to latest LTS versions, improving performance and security posture.
- Led incident response and production triage, reducing mean-time-to-resolution by 40 %.
- Optimized cloud resource utilisation, balancing performance targets with cost efficiency.

2nd Line Software Engineer

Jul 2020 – Sep 2020

Betsson Group

- Provided production support for high-availability online sports-betting platforms with strict regulatory requirements.

Software Engineer

Jan 2020 – Jun 2020

Ixaris (now Nium)

- Contributed to PCI-DSS compliant payment platforms, gaining experience in regulated fintech environments with strict data-security requirements.

Java Software Developer

Jun 2019 – Dec 2019

Melita Ltd.

- Developed and maintained core telecommunications software supporting critical infrastructure services.

Full-Stack Software Developer

Jun 2015 – Jun 2019

Tipico Ltd.

- Built cross-platform applications using **Java / Spring** and **JavaScript / React** for a regulated gaming platform.
- Deployed and managed services on **AWS**; implemented CI/CD with Jenkins.
- Practiced Scrum/Agile methodologies in cross-functional, distributed engineering teams.

Software Development Executive

Nov 2013 – May 2014

Bit8 Ltd

Amazon Web Services

GCP Cloud Engineer (*In Progress*)

Google Cloud Platform

AWS Cloud Practitioner

Amazon Web Services

Product Owner

Advanced

Scrum Alliance

PROJECTS & INTERESTS

Mechanistic traversal simulator (symptom → protein → gene pathways) · Graph databases (Neo4j) & biomedical data pipelines · Healthcare data platforms · Drug discovery & ADMET modelling · AI Agents & LLMs

LANGUAGES

English (Fluent)

Maltese (Native)

Italian (Conversational)

French (Conversational)

- .NET development (C#, ASP.NET) for online gaming and payment-gateway APIs in a compliance-driven environment.

Java Developer

Jan 2012 – Sep 2013

iCube+

- Developed enterprise applications using Struts, Hibernate, and Spring; integrated with relational databases (MySQL, Oracle).

Project Manager / Engineering Lead

May 2005 – May 2011

Motherwell Bridge

- Led technical project planning, resource estimation, and cross-functional team coordination for large-scale engineering projects.
- Managed maintenance operations and on-site technical teams, building strong stakeholder communication and leadership skills.

Electrical Engineering Superintendent

Aug 2001 – May 2005

Malta Freeport Terminals

- Directed a team of electrical and mechanical technicians, planning and executing maintenance programmes that increased operational uptime on port container-lifting plant.
- Managed inventory, work orders, and financial reporting using the AMOS ERP system — from requisition through to archiving.
- Made dynamic operational decisions under continuously changing requirements in plant repair priorities and multi-skilled workforce allocation.
- Programmed and maintained PLCs (Profibus, CAN-bus, GE-Fanuc) for machinery logic control across digital and analogue I/O systems.

EDUCATION

University of Malta

Master's Degree – Information Technology
2010

Maastricht School of Management (Netherlands)

Master of Business Administration (MBA)
2005

University of Malta

Bachelor's Degree – Electrical Engineering
2001

G.F. Abela Junior College

Advanced Levels – Physics, Computing, Pure Mathematics
2000 – 2002

CURRENT AND PAST PROJECTS / ACHIEVEMENTS

Mechanistic Traversal Simulator (Biomedical Modeling)

Current Project

- Designed a simulator mapping symptom → protein → gene pathways for clinical applications.
- Integrates graph databases and biomedical data pipelines to support drug discovery, precision medicine, and ADMET modeling.

Vehicle Powertrain Transplant — [▶ Watch Video](#)

Finished 2007

- Successfully integrated a BMW M70 V12 engine into a Land Rover Discovery, achieving 330hp.
- Custom ECU, dual DME control, and bespoke transmission coupling ensured high reliability and optimized performance.
- Demonstrated ability to adapt complex systems across domains (mechanical, electrical, software).

Cloud & High-Traffic Platform Engineering

Ongoing

- Led platform architecture and DevOps pipelines for CasinoGrounds.com, serving millions of monthly users.
- Implemented Kubernetes-based deployments, automated scaling, and CI/CD pipelines, reducing downtime and cloud costs by 25%.
- Enabled data-driven operational decisions with back-office microservices and dashboards.

Home Automation & Ontology-Based Simulation

Finished 2010

- Developed a self-adaptive home system integrating sensors, energy management, and user behavior.
- Created ontology-driven models that optimize automation and decision-making based on real-time data.

EV Inverter & Motor Control Systems

Finished 2001 – EE Degree Thesis

- Designed battery-powered inverter for electric vehicles, including PCB interface, C programming for vector control, and precise motor speed/current management — before electric cars were mainstream.
- Demonstrated full system integration in hardware and software.

Heavy Engineering & Project Leadership

2001 – 2010

- Managed maintenance, repair, and system optimization for transshipment cranes and container-moving vehicles.
- Led cross-functional teams, resource planning, and complex engineering projects with measurable efficiency gains.