

KRISH PASUMARTHI

DATA SECURITY AND AI GOVERNANCE

Principal Security Advisor | Founder of CybrGen and MyTrustForge

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cybrgen.nz/profiles/krish-pasumarthi

PROFILE

Security and assurance leader with 22+ years across the UK, New Zealand and India, including PwC, KPMG and Deloitte. Combines ISO/IEC 42001 Lead Auditor and CDPSE qualifications with security architecture, privacy, IAM and governance, risk and compliance (GRC) experience. Leads security advisory for NZTA's National Ticketing Solution programme and shapes MyTrustForge's risk and compliance platform. Focused on helping clients translate data protection and AI governance requirements into practical controls, implementation priorities and defensible assurance.

CERTIFICATIONS

ISO/IEC 42001
Lead Auditor

CDPSE
Certified Data Privacy Solutions Engineer

CRISC
Certified in Risk and Information Systems Control

CEH
Certified Ethical Hacker

CORE CAPABILITIES

Data security and privacy

DLP policy and control requirements

Security architecture assurance

Identity and access management (IAM)

AI governance and risk

Supplier security and GRC

Executive advisory

INTERNATIONAL EXPERIENCE

UK
PwC UK, Jan 2011 - Oct 2014

New Zealand
Banking, transport, government and technology

India
PwC, Deloitte and Grant Thornton

DATA SECURITY AND AI GOVERNANCE FOCUS

- Data protection programmes: translate sensitive-data risks into classification, access, sharing, retention and Data Loss Prevention (DLP) policy requirements, with ownership and evidence for ongoing assurance.
- Microsoft Purview programme contribution: bring policy design, privacy and risk assessment, stakeholder engagement and control validation to Microsoft Purview Information Protection, DLP and Microsoft 365 Copilot data-security workstreams.
- AI governance: apply ISO/IEC 42001 knowledge to use-case risk, accountability, human oversight and assurance requirements for AI-enabled services.

CURRENT EXPERIENCE

Lead Security Advisor NTS Programme

NZTA / Waka Kotahi
Apr 2026 - Present

- Lead security advisory for the National Ticketing Solution Shared Services Organisation across definition, design, risk analysis and delivery, aligned with CISO assurance obligations.
- Lead system-level risk assessments and residual-risk advice for public transport integration and adoption, including Auckland Transport.
- Work with programme teams and business owners to embed security architecture principles, pragmatic controls and risk-informed decisions.

Founder and Principal Consultant

CybrGen and MyTrustForge
Concurrent founder-led work

- Deliver security and compliance advisory, SOC 2 and ISO 27001 readiness, supplier assurance and fractional security leadership.
- Shape MyTrustForge's multi-tenant product architecture and requirements for universal controls, AI readiness, AI-assisted policy generation, integrated risk and evidence workflows.

TECHNICAL ASSURANCE

STRIDE threat modelling

JWT signing and key distribution

MFA and token lifecycle

API authentication and authorisation

Azure and AWS security reviews

OT and SCADA design review

FRAMEWORK EXPERIENCE

ISO 27001 and SOC 2

NZISM and PSR

NIST CSF and NIST 800-53

CPS 234

GDPR and HIPAA control assessments

SELECTED DESIGN REVIEWS

JWT signing
Identified missing shared-secret distribution in a symmetric signing design. The design subsequently changed to asymmetric signing.

Authentication
Challenged 24-hour confirmation codes and email-based MFA proposals, recommending shorter token lifetimes and stronger authentication controls.

Mobile application
Used STRIDE to identify architecture and control weaknesses.

PROFESSIONAL EXPERIENCE

Principal Security Advisor

Auckland Transport | Contract
Jul 2025 - Mar 2026

- Developed third-party risk management policy, process and tiered supplier assessment requirements, including AI-related due diligence.
- Reviewed supplier security posture and critical transport technology risks; advised on control design, treatment priorities and residual-risk positions.
- Worked with the security function and business stakeholders to make assurance practical within procurement and delivery workflows.

Earlier Auckland Transport engagements included critical-system security reviews (Mar - Jul 2024) and a SCADA / industrial control system design review (Nov 2019).

Senior Cyber Security Architect

Gaming sector client | Contract
Mar 2025 - Jul 2025

- Reviewed high-availability enterprise architectures against NIST 800-53, balancing security, resilience and operational continuity.
- Advised delivery teams on infrastructure and application control design, vendor security posture and prioritised remediation across parallel initiatives.

Fractional Security and Compliance Officer

Technology SME | Contract
Jun 2022 - Jan 2025

- Ran SOC 2 audit programmes as the primary liaison between external auditors and internal stakeholders, translating audit requirements into practical control and evidence activities.
- Evaluated controls across SOC 2, ISO 27001, GDPR and HIPAA; developed security and AI-use policies and communicated findings to executives.
- Conducted vendor risk assessments and delivered security awareness training for global teams.

Senior Information Security Consultant

Large New Zealand bank | Contract
Mar 2020 - Apr 2023

- Completed more than 100 security assessments of critical suppliers using CPS 234, NZISM and ISO 27001-aligned criteria.
- Supervised IAM control assessors and provided weekly supplier-risk reporting to senior leadership in a regulated, always-on environment.
- Communicated control weaknesses, treatment priorities and residual exposure to support accountable risk decisions.

UK DELIVERY EXPERIENCE

PwC UK
Manager, Risk Assurance
Jan 2011 - Oct 2014

UK and international assurance engagements

Data centre and financial-services assurance context

EDUCATION

Post Graduate Diploma in Business Administration
ICFAI Business School
Hyderabad, India

Bachelor of Science
Nagarjuna University
Andhra Pradesh, India

LEADERSHIP STRENGTHS

Client discovery and scoping

Risk and control workshops

Executive communication

Delivery-team leadership

Audit liaison and readiness

Product requirements and prioritisation

PROFESSIONAL LINKS

cybrgen.nz

mytrustforge.com

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CONSULTING AND INTERNATIONAL EXPERIENCE

Associate Director Risk Consulting Cyber

KPMG New Zealand
Sep 2019 - Mar 2020

- Led information security risk assessments, cyber maturity reviews and NZISM-PSR engagements for government and enterprise clients.
- Directed delivery teams and engaged senior stakeholders on assessment scope, control effectiveness and risk treatment.

Senior Manager Risk Assurance

PwC New Zealand
Oct 2017 - Aug 2019

- Delivered IT assurance and cyber advisory covering security assessments, Azure and AWS cloud reviews and NIST-aligned control evaluations.
- Managed client relationships and advised on technology risk, governance and security improvement priorities.

Associate Director IT Advisory and Cyber Security

Grant Thornton India LLP
Nov 2014 - Oct 2017

Manager Risk Assurance

PwC UK
Jan 2011 - Oct 2014

- Delivered risk assurance engagements in the UK, working with client stakeholders on control assessment and assurance requirements.
- Brought control assessment, evidence evaluation and stakeholder engagement together to support client assurance reporting.

Senior Consultant Risk and Regulatory Services

PwC India
Apr 2008 - Jan 2011

Senior Analyst Enterprise Risk Services

Deloitte India
Apr 2007 - Apr 2008

PRODUCT PERSPECTIVE

As founder of MyTrustForge, connect security and governance requirements with the workflows people need to operate them. The platform approach links reusable controls to framework requirements, risks, ownership and evidence, supporting consistent assurance across engagements.

For data security and AI programmes, this perspective supports a practical connection between technical safeguards, business accountability and ongoing review. Potential use alongside Microsoft Purview would be scoped around complementary client needs.