

# Babak Bandpey

Senior Freelance Software Engineer / Security & GRC Specialist

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## Summary

Senior systems architect who operationalizes security, compliance, and AI into measurable business outcomes. Conceived, architected, and built FITS, a production-grade AI-driven GRC platform used by real organizations. Expert in Python, Django, PostgreSQL, Neo4j, React, and AI/LLM integration. Hands-on experience with ISO 27001, CIS Controls, ISMS implementation, and large-scale compliance automation.

## Experience

### Senior Freelance Software Engineer / Security & GRC Specialist

cocode.dk

Copenhagen, Denmark 2025-01 – Present

Independent consultancy providing senior software engineering and security expertise. Focus on outcome-driven delivery with heavy personal ownership. FITS - AI-Driven GRC Platform Production-grade GRC / security program management platform used by real organizations. Functions as GRC automation engine, CMDB-like system, and assessment/reporting factory. Python, Django, PostgreSQL, Neo4j, Redis, TypeScript, React, Tailwind, pgvector, OpenAI / Azure AI, Atlassian Confluence, Jira

- AI-generated security questionnaires
- Policy-aware evaluation of answers
- Automated scoring and assessments
- KPI-rich reporting for CISOs, auditors, and executives
- Reduced assessment turnaround from ~3 weeks to < 48 hours
- Reduced manual review effort by ~75%
- Multi-tenant architecture, operated as single-tenant per customer
- Strong data isolation and compliance alignment

### Security & GRC Consultant

L7 Consulting

Copenhagen, Denmark 2021-12 – 2024-12

Long-term engagement with high trust and high autonomy. Built FITS during this period. Focus on GRC automation, ISMS implementation, and security program management. Archer at GlobalConnect <https://globalconnect.com> Archer Project (Enterprise GRC Implementation) Worked with RSA Archer as the central GRC platform to structure and operate enterprise risk, control, and compliance processes. The work focused on mapping ISO 27001-aligned policies and risks into concrete Archer workflows, running assessments, managing findings and remediation, and producing audit-ready reporting. Emphasis was on making Archer reflect real operational risk and security status rather than static compliance documentation. Python, Django, PostgreSQL, Neo4j, Redis, REST APIs, JSON, SQL, React, TypeScript, Tailwind CSS, OpenAI/Azure AI integrations, Jira, Confluence, RSA Archer, ISO 27001 frameworks, CIS Controls frameworks, CMDB principles, risk assessment tooling, policy & control libraries, audit reporting tools

- Planned and executed large-scale gap assessments across business-critical applications
- Conducted structured interviews with system owners, product owners, and technical stakeholders
- Interpreted policies, standards, and regulatory requirements into assessable control questions
- Evaluated control design and operating effectiveness, not just documentation presence
- Identified gaps, weaknesses, and systemic patterns across applications and domains
- Documented findings with clear severity, rationale, and remediation guidance
- Created management-ready assessment reports for security, risk, and executive audiences
- Designed and maintained KPI frameworks covering compliance level, control health, and progress
- Built dashboards tracking assessment completion, remediation status, and maturity trends
- Enabled longitudinal tracking of improvement instead of one-off assessments
- Fed assessment results directly into automated remediation and follow-up workflows
- Reduced manual coordination by enforcing ownership, deadlines, and traceability
- Acted as the bridge between policy intent, technical reality, and management decisions

Archer at Nuuday A/S <https://nuuday.dk> RSA Archer – Nuuday Worked with RSA Archer as the core GRC platform at Nuuday to manage risk, control frameworks, and compliance assessments. Focused on operationalizing ISO 27001-aligned requirements, running structured assessments, tracking remediation, and producing management and audit-ready reporting, ensuring Archer reflected real security and compliance status across business-critical systems. Python, Django, PostgreSQL, Neo4j, Redis, REST APIs, JSON, SQL, React, TypeScript, Tailwind CSS, OpenAI/Azure AI integrations, Jira, Confluence, RSA Archer, ISO 27001 frameworks, CIS Controls frameworks, CMDB principles, risk assessment tooling, policy & control libraries, audit reporting tools

- Centralized management of enterprise risks, controls, and compliance obligations
- Strong support for ISO 27001-aligned risk and control frameworks
- Structured assessment workflows with traceable findings and ownership
- Built-in remediation and issue tracking for audit follow-up
- Audit-ready reporting and dashboards for management and regulators
- Clear traceability from policy → risk → control → finding → remediation

### System Developer

Other employments

Copenhagen Denmark 2000-12 – 2018-12

20 years of experience with the LAMP stack, specializing in web applications and high-traffic sites. Skilled in PHP frameworks, backend logic, database design, and system integration. Created webshops in high-availability environments, transitioning to modern Python-based and AI-driven platforms.

## Education

### Advanced Diploma / Continuing Education in Cybersecurity, Erhvervsakademi / EK

2021 Cybersecurity and Information Security Management GPA 3.8

### Datamatiker, Niels Brock Copenhagen Business College

2000 Computer Science GPA 3.4

## Skills

### AI/ML

AI Evaluation & Scoring Logic

AI-assisted Assessment Generation

Embedding & Retrieval (RAG)

LLM Integration (OpenAI / Azure AI)

Policy-aware AI Workflows

Prompt & System Design

### Android app development

Kotlin

### Architecture

Closed-circuit / Local Deployments

Data-driven KPI Systems

End-to-end System Architecture

Scalable Compliance Platforms

Security-by-design Architecture

### Backend

Backend Architecture

Business Logic Modeling

Django

Flask

Multi-tenant Systems

REST API Design

Single-tenant Secure Deployments

Supabase

Workflow Automation

### Consulting

Client Advisory (CISO / Security Teams)

Independent Delivery & Accountability

Product Vision & Roadmap Ownership

Requirements Translation (Business → System)

Technical Leadership

### Databases

Graph-based Data Modeling

Neo4j (Graph DB)

pgvector / Vector Search

PostgreSQL

Redis

Relational Data Modeling

### DevOps

CI/CD

### DevOps/Cloud

CI/CD Pipelines

DigitalOcean

Infrastructure as Code

Secure System Deployment

Single-tenant Isolation Strategies

### Frontend

React

Tailwind CSS

Vite

Vue.js

### Integrations

Atlassian Confluence (Automation & Publishing)

Excel-based Reporting Automation

Jira Integration

Microsoft / Azure Ecosystem

### PHP Framework

Laravel

Symfony

Yii

### Programming Languages

C#

JavaScript

Node.js

PHP

Python

ReactJS

SQL

TypeScript

### Security/GRC

Audit Support & Reporting

CIS Controls / CIS18 Operationalization

CMDB & Asset Dependency Modeling

Gap Analysis

GRC Process Automation

ISO 27001 / ISMS Implementation

Risk Modeling & Assessment

Vulnerability Triage & Mitigation Coordination

### Software Development

Debugging

### Testing

Integration Test

Unit Test

### Testing and QA

Code Rabbit

### Vibe Coding

Claude CLI

Codex

### Vide Coding

Cursor