

# Erhard Szanto

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## EDUCATION

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### University of York

York, UK

*MSc in Computer Science (Cyber Security)*

*Apr 2024 - Apr 2026*

- Developing an MSc Independent Research Project focused on detecting synthetic/manipulated speech (audio deepfakes), defining problem statement, research aims/objectives, and research questions aligned to cyber-security risk (impersonation/fraud).
- Conducted a structured literature review (15+ key papers) on audio deepfake/anti-spoofing detection, covering ASVspoo benchmarks, feature representations (MFCC/LFCC/CQCC, log-mel, raw waveform), model families (SVM, CNN, end-to-end approaches), and evaluation metrics (EER, t-DCF).
- Designed a reproducible methodology comparing classical ML (cepstral features + SVM) vs deep learning (log-mel spectrograms + lightweight CNN), including dataset selection rationale, preprocessing plan, model training workflow, and metric-driven evaluation approach.

## PROJECTS

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### Independent Project

Bracknell, UK

*M365 Governance Toolkit*

*Jan 2026 - Feb 2026*

- Created detailed backlog and roadmap for ongoing improvements, along with operational runbooks that streamlined user onboarding.
- Implemented security baseline configurations including labels and Data Loss Prevention (DLP) measures.
- Developed comprehensive governance charter and operational framework, establishing standardized naming conventions, lifecycle policies, and external sharing protocols that enhanced compliance.

### Independent Project

Bracknell, UK

*Security Incident Triage Dashboard*

*Jan 2026 - Feb 2026*

- Built a full-stack Security Incident Triage Dashboard (FastAPI + React/TypeScript) to ingest JSON/CSV security alerts, normalize them into a unified schema, and support an analyst workflow from triage → investigation → containment → closure.
- Implemented incident correlation logic (entity overlap + time window) to group related alerts into actionable incidents, reducing alert noise and enabling faster prioritization.
- Designed an explainable triage scoring model (0–100) that surfaces “why this scored high” (severity, repeated entities, risky indicators), improving decision transparency for analysts.
- Developed exportable incident reports (Markdown) and a structured data layer (SQLAlchemy + SQLite) to support traceability, repeatability, and audit-friendly record keeping.

### Independent Project

Bracknell, UK

*Secure File Sharing Portal*

*Jan 2026 - Feb 2026*

- Built a secure internal file-sharing portal (Angular + FastAPI) with JWT authentication and role-based access control (RBAC) to manage document upload, access permissions, and audit-ready activity tracking.
- Developed a policy engine (DLP-lite) that classifies content into sensitivity labels (Public/Internal/Confidential/Highly Confidential) and enforces allow/warn/block sharing decisions with mandatory justification and expiry for external links.
- Implemented PII detection (regex-based scanning with redacted evidence) to identify sensitive data (emails, phone-like patterns, ID/credit-card-like patterns) and automatically assign risk-based labels to reduce data leakage.
- Designed an audit logging system capturing security-relevant actions (uploads, downloads, sharing changes, label overrides, policy decisions), supporting traceability and compliance reporting.
- Created compliance reporting exports (CSV) and per-file audit timelines to support governance workflows, incident investigation, and operational oversight.

## WORK EXPERIENCE

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Hult EF - Education First

London, UK

- Facilitated stakeholder alignment through strategic planning sessions, establishing clear goals and deadlines that resulted in a 15% boost in overall campaign engagement metrics.
- Conducted detailed data analysis within CRM systems to track key performance metrics, contributing to a 20% improvement in conversion rates through targeted outreach strategies.
- Leveraged sales engagement tools such as Salesloft to automate email sequences, resulting in a 20% increase in follow-up efficiency and a reduction of manual tasks by 40 hours monthly.
- Leveraged advanced prospecting tools such as LinkedIn Sales Navigator and ZoomInfo to identify over 500 high-potential leads monthly, increasing targeted outreach efficiency by 25% and ensuring alignment with the company's ICP criteria.
- Conducted in-depth trend analysis of conversion data to inform strategic prioritization, resulting in optimized outreach efforts that enhanced lead-to-client conversion rates by over 15%.
- Analyzed customer data within the CRM system to identify high-potential prospects, resulting in a 25% increase in lead conversion rates and adding over 200 new clients annually.

**EF - Education First**

**London, UK**

*Residence Manager*

*Jun 2022 - Sep 2022*

- Prioritized high-volume service requests through strategic scheduling and resource management, strengthening tenant relations by reducing wait times by 20% and improving resident satisfaction scores.
- Trained and supported a team of 5 staff on effective communication, conflict resolution, and problem-solving techniques, improving team collaboration and contributing to a measurable increase in resident experience ratings.
- Collaborated with substitute teacher schedules and managed classroom coverage through cross-functional team collaboration, ensuring uninterrupted learning for over 150 students during staffing shortages.
- Managed logistics for large-scale community events accommodating up to 300 attendees, reducing setup time by 15% through streamlined planning while ensuring safety protocols were upheld.
- Maintained meticulous records of occupancy rates and maintenance activities with strong attention to detail, achieving a 98% data accuracy rate that supported regulatory compliance and streamlined audit processes.
- Developed and enforced building policies, safety protocols, and community rules, using proactive communication and conflict resolution to reduce violations by 20% and foster a secure living environment for over 200 residents.

**SKILLS & INTERESTS**

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**Skills:** HTML/CSS, Python (FastAPI, Jupyter), JavaScript/TypeScript, React, Angular, SQLAlchemy/SQLite, REST APIs, Git/GitHub, M365 Governance (labels/DLP concepts), CRM Analytics (Salesforce-like workflows)

**Interests:** Reading, Brazilian Jiu-Jitsu, NFL (National Football League), Hiking

**Languages:** English, Spanish, Hungarian, Romanian

**Certifications:** • Microsoft SC-900T00-A: Introduction to Microsoft Security, Compliance, and Identity  
• Microsoft Applied Skills: Implement information protection and data loss prevention by using Microsoft Purview