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## SUMMARY

- 15 years of experience in technology as team leader and agile transformation director with software engineering background.
- Awarded research thesis on parallelization of Machine Learning Neural Networks Backpropagation Algorithms with NVIDIA CUDA GPU [pdf].
- Deep technical expertise in machine learning, information security, cloud adoption, applied in big-tech, consulting, telecom and financial industry.
- Leadership of global multicultural teams locally and remotely, coding and SDLC management mostly in Python, C#, Java.
- Track record delivering successful complex technical programs including regulatory mandates via trust with senior CxO stakeholders and vendors.
- Getting stuff done with passion for technology.

## EXPERIENCE

**Twiss | Director of Engineering Blockchain / Machine Learning / Information Security** | 06/2023 - present Remote SWITZERLAND  
 Chief Executive Officer and Director of Engineering leading all aspects of client engagements

**SFTA | Head of Security and Technology** | 04/2023 - present Remote SWITZERLAND  
 Chief Security and Technology Officer for the non-profit Global Swiss Fintech association

**Chainlink | Senior Technical Program Manager** | 03/2024 - 03/2025 Remote SWITZERLAND  
 Led teams, products, processes and company wide technology initiatives enabling our blockchain services revenue of ~100M+  
 Transformed dispersed engineering organization into a streamlined agile delivery function leading worldwide blockchain adoption

**GOOGLE | Technical Program Manager Information Security & Machine Learning (TPM III / L5 rank)** | 09/2021–04/2023 SWITZERLAND  
 Led Machine Learning program and mentored ML engineers developing models that reduced operational cost by ~1.5M  
 Led cross-divisional teams in multi-stream security programs in global Google codebase comprising 2B+ lines of code  
 Led remediation program fixing auth bypass and CI/CD compromise in 22K+ Google owned Github repositories  
 Led security program for Google Commerce and Content API as platform generating main revenue stream for Google  
 Led Android security remediation program fixing RCE vulnerabilities impacting 4M+ active users  
 Reduced overall backlog of security programs by 60% and established prioritization and assignment structure  
 Improved processes in multiple areas of information security design proposals, governance and leadership  
 Google Core Awarded as one of top 10% high performing teams  
 Started as TVC contractor (L5) in 2021 and hired as Full Time Employee (L5) in 2023

**UBS | Cyber Security Director and Team Lead Technical Program Manager (Director rank)** | 07/2016–09/2021 SWITZERLAND  
 Transformed global cyber security organization from traditional defense model to agile service-aligned proactive prevention  
 Led global team of 35-40 comprising engineers, architects, project managers and pmo officers  
 Led end-to-end multi-year Cyber Security Programs with cumulative investment of 31M+  
 Integrated automated incident response working closely with SOC and CISO organization  
 Recruited and developed internal and external resources and directly managed 8 program managers  
 Led delivery of security remediations for global regulatory mandates eg. FINMA, MAS  
 Implemented numerous Cloud transformation and Cyber Security initiatives  
 Established Threat Intelligence service and deployed intelligence aggregation platform for CISO organization  
 Led rollout of security awareness campaigns and deployment of supporting technical platform for CISO  
 Established Red Team testing service and rollout of supporting technical platform enabling proactive defense  
 Established global Malware Prevention service and deployed ecosystem for endpoint compromise prevention  
 Deployed technology for network detection, global IOC sharing, deep packet inspection and malware reverse engineering sandbox  
 Onboarded global vendors (FireEye, Mandiant, SentinelOne, others) into bank's infrastructure

**Deloitte | Cyber Risk Advisory Consultant** | 03/2012-07/2016 SWITZERLAND and SINGAPORE  
**Assistant Manager** (09/2015 - 07/2016) - Led rollouts of security technologies in the Swiss banking industry.  
 Received Outstanding Contribution Award for work performance.  
**Senior Consultant** (07/2013 - 09/2015) - Led rollout of Data Leakage Prevention technology for a major Swiss international financial organization. Received another Outstanding Contribution Award.  
**Consultant** (03/2012 - 07/2013) - Led software development (C#/SQL) project team implementing forensic investigation data analysis platform. Outstanding Contribution Award.

**UPC | Assistant to Director of IT Production Services** | 07/2011-12/2011 SWITZERLAND  
 Led operational risk assessment of datacenter infrastructure, optimized and expanded risk assessment methodology

**Siemens | Freelance Software Engineer and Consultant** | 2009-2011 CZECH REPUBLIC  
 Siemens OpenStage Integrated Web Solution for VoIP Phone Devices (Java/WebServices/MySQL) [datasheet]

## EDUCATION VOLUNTEERING AND MANDATES

**INSEAD** | 2023 SWITZERLAND

- Online Certificate of Blockchain, Cryptoassets and Decentralized Finance

**Yale University** | 2023 SWITZERLAND

- Online Certificate of Connected Leadership

**Stanford University** | 2023 SWITZERLAND

- Online Certificate of Advanced Learning Algorithms

**ETH Swiss Federal Institute of Technology** | 2019 SWITZERLAND

- Certificate of Advanced Studies in Cyber Security - Project **Machine Learning for Behavioral Malware Detection**

**NUS National University of Singapore** | 2015 SINGAPORE

- Executive Education of Leading Transformational Change

**VSB Technical University of Ostrava** | 2006-2011 CZECH REPUBLIC

- (Dipl. Ing. / Msc.) Master of Computer Science & Technology (Software Eng) - Thesis **Hardware Accelerated Machine Learning Neural Networks**
- (Bc.) Bachelor of Computer Science & Technology (Software Eng) - Thesis **Model Driven Software Architecture**

Certifications

- |  |   |   |
|--|---|---|
| • <b>ISACA CISM</b> (lapsed)                   | • <b>PRINCE2 Practitioner Certificate</b> | • <b>Lean Six Sigma Certificate</b>     |
| • <b>Professional Scrum Master Certificate</b> | • <b>ITIL Certificate</b>                 | • <b>GCP ML Ops Certificate</b>         |
| Volunteering, Memberships and Board Mandates   |   |   |
| • <b>OpenSource Security Framework</b>         | • <b>ETH Cyber Group</b>                  | • <b>Corporate Governance Institute</b> |
| • <b>Asyl Organisation Zürich</b>              | • <b>IAESTE</b>                           | • <b>Schweizer Alpen Club</b>           |

## SELECTED CODING PROJECTS WITH TECH STACK

### Solidity Example dApp [\[code\]](#)

Solidity | JavaScript

### Spring Microservices Web App [\[code\]](#)

Java | Keycloak | Kafka | Grafana | MongoDB | k8s

### React Web App AI Stock Trader [\[code\]](#)

Next.js | AWS | OpenAI | Vercel

### Blog Website [\[code\]](#)

JavaScript | HTML5 | CSS

### ML Object Detection Model [\[code\]](#)

Python | Jupyter | Tensorflow | GCP

### Custom OpenAI Chatbot [\[code\]](#)

Python | Jupyter | Langchain

## SELECTED TECHNICAL SKILLS, LANGUAGES, FRAMEWORKS AND APPLICATIONS

- Program and Project Management
- Roadmap Planning
- Budget Management
- Lead Business Cases and RFPs
- Cyber Security Strategy
- Threat Intelligence
- Secure Cloud Computing
- Machine Learning Neural Networks
- Computer Vision
- Python
- C#
- Java
- SQL
- UML
- BigQuery
- Tensorflow
- gRPC
- Protocol Buffers
- Kafka
- Open telemetry
- Postgres
- Blockchain Smart Contracts
- Azure Cloud Platform
- Google Cloud Platform
- Kubernetes
- Organizational Transformation
- Team Leadership
- Risk Management
- IT Governance and Compliance
- Cyber Threat Modeling
- OWASP Web Application Security
- Endpoint Security
- Malware Prevention
- Cryptography
- Docker
- CI/CD
- Github
- ServiceNow
- Mandiant Malware Analysis
- FireEye Endpoint Security
- FireEye Email Protection
- FireEye Central Management
- Rest of all FireEye suite
- SentinelOne Linux Endpoint Security
- Symantec Data Loss Prevention
- Microsoft Azure Inf. Protection
- Microsoft Azure Security Center
- McAfee Endpoint Security
- Verodin FireEye Security Validation
- Microsoft Defender for Endpoint
- Senior Stakeholder Management
- Secure Software Dev Life Cycle
- Process Design and Optimization
- Trainer on IT Program Delivery
- Team Development and Mentoring
- Data Loss Prevention
- Log and Event Management
- Data Analysis
- Security Operation Center Procedure
- Microsoft Office 365 Threat Protect
- Anomali Threat Intelligence
- Splunk Log and Event Management
- ArcSight SIEM
- JIRA, Confluence
- MS Office
- Google Workspace
- Colab Jupyter notebook
- ISO 27000
- ISO 21434 Automotive Cybersecurity
- NIST
- MITRE ATT&CK
- Agile Scrum or PRINCE2 Waterfall
- Technology Strategic Design
- Organization and CAPEX

## SELECTED PROGRAMS I LED

### Director Technical Program Management Lead – Cyber Security Services Delivery for CISO organization

Full accountability for delivery of security risk mitigation, multiple cyber security technologies, processes and establishment of cyber security service organization, including:

- Leading deployments of parallel complex security technical programs
- Team leadership, hiring and mentoring
- Designing portfolio management processes and organizational structures
- Ensuring alignment with organizational goals
- Building trust across various stakeholders and business functions
- Implementing strategic bank-wide regulatory mandates with critical deadlines
- Liaison with legal, compliance, data protection, CTO, platform engineering and other functions
- Procurement and vendor management

### Security Technical Program Manager – Cloud Migration

Lead program delivering security controls to cloud environment enabling migration of on prem applications to cloud environment. My responsibilities included:

- Ratify and enforce on-premise security controls to the cloud environment
- Work with security engineering team to develop onboarding scripts that automatically enable security control at endpoints

### Project Manager / Team Lead – Software Development and Data Analysis

Lead project team implementing data analysis platform utilizing C# .Net and T-SQL. My responsibilities included:

- Managed software development & data analysis team implementing data analysis platform
- Coding additional features to platform backend in C#.NET and data analysis in SQL

### Technical Program Manager - Machine Learning

Managing program and engineering team implementing machine learning models for driving efficiency, prioritization, automation and other organizational goals:

- Technical advisory on models implementation MLDev and operationalization MLOps
- Coding ML models templates with Tensorflow, Keras and other APIs
- Stakeholder alignment, data gathering, analysis, pre-/post- processing
- Onboarding ML engineers and mentoring new joiners in complex organization
- Designing and managing work intake process and prioritization
- Coordination of engineering reviews with cross organizational stakeholders
- Team wellbeing management and organization of social events

### Security Technical Program Manager – Security Monitoring

Lead program to deliver new security monitoring use-cases and streamline onboarding processes. My responsibilities included:

- Definition of threat model and work with security engineering team to define security monitoring use-cases and correlations
- Establishing processes for onboarding of logs into strategic security event management platform

### Security Technical Program Manager – Threat Intelligence

Lead program delivering global threat intelligence platform for aggregation and correlation of data feeds establishing threat intelligence service for analysis of attacker trends. My responsibilities included:

- Definition and execution of program strategy and plan, coordination of business case, RFP, proof-of-concept materializing into global solution
- Work with engineering teams to deploy technology in non-standard infrastructure and implement integrations to surrounding ecosystem

## LANGUAGE SKILLS

English  
Czech  
Slovak  
German

C2 highly proficient in spoken and written  
C2 highly proficient in spoken and written  
C2 highly proficient in spoken and written  
B1 intermediate and conversational

## SELECTION OF REFERENCES (available on request)

Google  
UBS  
Deloitte  
UPC

Multiple senior references  
Executive Directors  
Cyber Security Managing Partner  
Director of IT and Security