Github.com/Akira1906

EDUCATION

Expected graduation 2025
National Tsing Hua University (NTHU) | Hsinchu, Taiwan
M. Sc
Institute for Information Security
Current GPA: 4.3

2024
Google Cybersecurity Certificate

2023
Technical University of Munich (TUM) | Munich, Germany
B. Sc in Informatics

SKILLS

- Programming (**Python, Ruby**, C, PHP, SQL)
- Secure Software Engineering
- Network Security
- Machine Learning
- Git
- Linux line-command
- Security frameworks, controls, design principles

Tristan Döring

SOFTWARE ENGINEER

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18F-7, D Building, No. 30, Buding 3rd Rd
East District, Hsinchu City, 300, Taiwan

I am a motivated software engineer with a strong background in information security seeking a challenging software engineering position.

EXPERIENCE

WORKING STUDENT FOR CYBERSECURITY
FEV.IO GMBH (ENGINEERING PROVIDER FOR BMW)
September 2022 – February 2023

- Analyzed ongoing automotive projects at BMW regarding Cybersecurity ISO-standards for road vehicles
- Conducted research on Fuzz-Testing automotive networks. This initiative led to the decision to incorporate Fuzz Testing into project testing strategies.

Recommendation letter: very satisfactory

TEAM PROJECT: SERVICE SECURITY
2024

- Developed a security focused chat application and backend API using **Ruby**
- Utilization of Security Tokens, Single-Sign-On, encrypted SQL database and session cookies
- Deployment on cloud-platform Heroku

Grade: 4.3 (from 4.3 = very good to 0 = fail)

BACHELOR THESIS: PACKET SELECTION USING CONCEPTS FROM IPFIX AND PSAMP
CHAIR OF NETWORK ARCHITECTURES AND SERVICES (TUM)
2023

- Derived a new network packet selection architecture from the IPFIX and PSAMP group of RFC internet standards.
- Implemented an open-source tool using **Python** (GitHub)
- Initialized significant updates in the network monitoring toolkit "Vermont" at TUM.

Grade: 1.6 (from 1 = very good to 5 = fail)

LANGUAGES

- **German**
  Native speaker
- **French**
  Intermediate
- **English**
  Fluent
  TOEFL iBT: 103/120
- **Mandarin Chinese**
  Conversational
  TCFL Novice 2

SELF-EMPLOYMENT AS WEB DEVELOPER
2021 - 2023

- Collaborated with a graphic design agency to implement customer-editable websites
- Rapidly acquired the necessary technical skills through self-study to realize these projects using **PHP**, **CSS**, **HTML**, and **JavaScript**.

The websites remain in use and are **actively maintained to date** (e.g. sweet-magazin.com).

TEAM PROJECT: OPERATING SYSTEMS – SEL4 & TRENTOS
2022

- Developed a self-driving drone algorithm and network protocol using in **C**
- Prototyping in **Python**, tailoring the Operating Systems components of the microkernel, and finalizing development and integration in C on a SoC

Grade: 1.0 (from 1 = very good to 5 = fail)

MACHINE LEARNING PROJECT: CANDIDEMIA MORTALITY PREDICTION
NATIONAL YANG MING CHIAO TUNG UNIVERSITY (NYCU)
2024

- Developed a high-accuracy predictive model for healthcare decision-making
- Utilized binary classifiers focusing on performance metrics like F1 score, MCC, and AUROC
- Employed Python scikit-learn for model development and evaluation

Course Grade: 4.3 (from 4.3 = very good to 0 = fail)

AI PROJECT: STRATEGIC GAME AI FOR "STRANDS"
NATIONAL YANG MING CHIAO TUNG UNIVERSITY (NYCU)
2024

- Implemented Minimax algorithm with alpha-beta pruning and Monte Carlo Tree Search (MCTS) using multithreaded **Python**
- Developed heuristics for evaluating board states and moves
- Optimized AI decision-making within a 30-second time limit per move

Course Grade: 4.3 (from 4.3 = very good to 0 = fail)

PUBLICATION

SMARTNICS: CURRENT TRENDS IN RESEARCH AND INDUSTRY
2021

Döring, T., Stubbe, H., & Holzinger, K. (2021)
Network, 19 (doi: 10.2313/NET-2021-05-1_05).