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Akif Mehmood

EDUCATION

Doctor of Science in Information Security **October 2025 - Present**
Tampere University

Master of Science in Information Security **August 2022 - December 2024**
Tampere University

Majors: Cybersecurity, Wireless Communication, Secure Programming, Cryptography.

Bachelor of Science in Information Technology **October 2015 - September 2019**
University of Education

Majors: Data Structures, Object-Oriented Programming, Databases, Computer Networks, Operating Systems, Calculus I & II, Network Administration, Network Security.

WORK EXPERIENCE

Linux and Cryptography (Cybersecurity) Researcher **June 2023 - Present**
Network and Information Security (NISEC) Group, Tampere University *Hybrid*

- Skills: C and Rust programming, public key cryptography (Asymmetric Cryptography), TLS 1.3 Protocol, open-source collaboration and test-driven development.
- Contributed in Developing an OpenSSL 3.2 Provider and implemented Post-Quantum Algorithms for secure Internet browsing.
- Utilized CI/CD pipelines to conduct unit and integration testing, ensuring memory safety and code quality.
  Details available on: Official Europe Horizon Project GitHub.

Senior Project Coordinator **September 2021 - August 2022**
Infinikorn *Hybrid*

- Skills: Project Management, Risk Assessment, and Documentation (Google Workspace).
- Delivered software projects comprising development tasks.
- Utilized management tools such as Jira and Asana to collaborate with development teams on tasks.

Training Specialist **June 2021 - August 2021**
Mindbridge | Outsourced Project: foodora *On-site*

- Skills: Product and Tools Training, Soft skills, Customer Oriented Solutions, and Service Workflows.
- Trained over a hundred employees regarding the product and provided coaching sessions to produce desired outcomes of the project.
- Utilized diverse tools for management and communication such as Zendesk, Salesforce, Slack, and cloud-based services (e.g., Google Workspace, AWS).

Quality Analyst **December 2020 - June 2021**
Mindbridge | Outsourced Project: foodora *On-site*

- Skills: Written Communication Assessment, Objectivity.
- Conducted extensive and various audits internally for the production department to maintain solution quality parameters.

PUBLICATIONS

- Integrating PQC in OpenSSL via Shallow Providers for Cryptographic Agility November 2025 (IARC)

CONFERENCES AND WORKSHOPS

- Speaker at NordSec November 2025
- Speaker at Devconf CZ June 2025
- Speaker at ETSI/IQC Quantum Safe Cryptography Conference June 2025

SKILLS

Programming	C, Rust
Communication	Urdu (native), English (CEFR B2)
Others	GNU/Linux OS, Git, KVM, QEMU, OpenSSL