

Cybersecurity AI Intern [IDA:00062]

Your tasks

The selected intern will support the development of an innovative tool that leverages AI agents to address challenges in cryptographic agility within the automotive environment. This project focuses on enhancing system resilience, flexibility, and adaptability in cryptographic operations.

The intern will:

1. Explore the application of AI agents in managing cryptographic transitions and compliance workflows.
2. Assist in designing and prototyping components of a crypto agility framework for automotive use cases.
3. Research emerging standards, algorithms, and practices in post-quantum cryptography and their relevance to automotive systems.
4. Develop proof-of-concept modules to demonstrate automated decision-making, monitoring, and reporting capabilities.
5. Document findings, design approaches, and prototype results to support ongoing tool development.

Your profile

- Currently pursuing a Bachelor's degree in Computer Science, Information Security, Electrical/Electronics Engineering, or a related field.
- Strong programming skills in Python or C/C++.
- Familiarity with cryptography concepts (e.g., encryption, digital signatures, PKI).
- Understanding of AI/ML fundamentals and practical experience with frameworks such as TensorFlow, PyTorch, or LangChain.
- Good problem-solving skills and ability to conduct structured research.
- Strong communication and documentation abilities.

Our offer

Ready to take your career to the next level? The future of mobility isn't just anyone's job. Make it yours! **Join AUMOVIO. Own What's Next.**

About us

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-



Job ID

REF4404B

Field of work

Engineering

Location

Singapore

Legal Entity

**Continental Automotive
Singapore Pte. Ltd.**

ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.