

# Kasper Allais

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Houston, TX

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Dear Hiring Manager,

I am writing to express my interest in the Network Digital Twin Security Intern position with CableLabs, as advertised. I am currently pursuing a Bachelor of Science in Computer Science with a focus on Cyber Defense at the Colorado School of Mines, and I am excited about the opportunity to contribute to CableLabs' cutting-edge work in network security and digital twin technology. With a solid foundation in cybersecurity, hands-on experience in software development, and a passion for innovative technologies, I am confident in my ability to make meaningful contributions to your team.

Through my internship experience at Netisys, I developed a server monitoring tool in Java, where I gained practical experience in system performance monitoring, security analysis, and optimizing software for real-time notifications. Additionally, I worked extensively with networking protocols and security protocols, which aligns with CableLabs' focus on enhancing the security of IoT, 5G, and other next-generation network infrastructures. My time as a Web Development Intern at MDC also honed my technical skills, emphasizing the importance of clean, secure code and user-focused design.

In particular, I am excited about the prospect of exploring digital twin networks and contributing to anti-DDoS solutions. My background in cryptography, networking, and hands-on exposure to security practices equips me with the tools to evaluate vulnerabilities and contribute to the development of secure systems. I have familiarity with tools like Nmap and Wireshark for vulnerability scanning and network traffic analysis, as well as scripting and coding experience in Python, which would be beneficial for the development of client- and server-side anti-DDoS software.

The opportunity to collaborate with CableLabs' Security and Privacy Technologies team on pioneering work in AI-driven network optimization and predictive maintenance is truly inspiring. I am eager to apply my skills in cybersecurity and network security principles to support the innovative projects at CableLabs while learning from industry experts and contributing to the next generation of secure network infrastructures.

Thank you for considering my application. I look forward to the possibility of discussing how my skills and experiences align with the goals of CableLabs. Please feel free to contact me at (832)-869-6242 or via email at kallais@mines.edu to arrange an interview.

Sincerely,  
Kasper Allais