Hasan El-haj

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Professional Summary

Results-driven Cybersecurity Professional with over 5 years of experience in cybersecurity and full-stack development. Proven expertise in enhancing cybersecurity posture by implementing advanced security measures, conducting thorough risk assessments, and optimizing vulnerability management processes. Strong familiarity with cybersecurity frameworks including NIST and ISO 27001. Skilled in analyzing complex data sets to identify trends and provide actionable insights that drive continuous improvement aligned with business objectives and regulatory requirements. Adept at fostering collaboration across cross-functional teams and effectively communicating with stakeholders to implement innovative solutions and best practices in secure coding.

Skills

THREAT LANDSCAPES	**RISK ASSESSMENT**	**NIST COMPLIANCE**
CYBERSECURITY OPERATIONS	**VULNERABILITY MANAGEMENT**	**INCIDENT RESPONSE**
CROSS-FUNCTIONAL TEAMWORK	**CONTINUOUS MONITORING**	**REGULATORY REQUIREMENTS**

Experience

AI Security Software Engineer

Quantumverse AI

8/01/2024 - Present   Redmond, WA

• Developed and implemented robust **AI security frameworks** that protect sensitive data and mitigate risks associated with adversarial attacks and data breaches, aligning with **industry best practices and regulatory requirements**.
• Conducted vulnerability assessments and penetration testing to **identify and address security weaknesses** in AI models and systems, enhancing **incident response and vulnerability management**.
• Designed and implemented **privacy-preserving techniques** to ensure compliance with data protection regulations, effectively safeguarding user privacy and optimizing **cybersecurity operations**.
• Collaborated with data scientists and engineers to **develop secure AI algorithms** and models, fostering cross-functional collaboration and enhancing the overall **cybersecurity posture** of applications.

Security Software Engineer

PGIP- Purdue Global Internship Program

1/01/2023 - 06/30/2024   Bothell, WA

• Conducted vulnerability assessments utilizing tools like OWASP ZAP, **identifying and resolving 5 medium-priority security issues** to enhance **cybersecurity measures** and reduce risk exposure.
• Assisted in optimizing SQL queries, resulting in a **25% decrease in average database response time**, thereby improving operational efficiency and aligning with **business objectives**.
• Collaborated on full-stack development with a focus on security features using React and Node.js, contributing to a **15% increase in application responsiveness and user security**.
• Participated in **20+ code reviews**, suggesting improvements that led to a **10% reduction in technical debt** and strengthened the underlying infrastructure for **continuous monitoring and risk management**.

Software Engineer

Novalism

6/01/2019 - 1/01/2023   Bothell, WA

• Conducted security audits on 5 client applications using static code analysis tools, **identifying potential vulnerabilities** that aided in **enhancing adherence to cybersecurity frameworks** such as NIST and ISO 27001.
• Developed and presented 3 customized software prototypes utilizing agile methodologies, effectively addressing **specific client security needs** and aligning with **long-term cybersecurity strategies**.

• Provided technical expertise on software products to 10+ clients, ensuring understanding of **cybersecurity principles** and fostering collaboration across diverse teams to **optimize client solutions**.
• Offered support and troubleshooting, resulting in a **95% client satisfaction rate** while applying **risk assessment methodologies** to enhance operational processes and incident response strategies.

Education

Bachelor of Science In Cyber Security, Magna Cum Laude, 3.94 GPA|2024|PG
Associate of Science In Computer Science, 3.9 GPA|2022|CC

Certifications

Application Development Computer Programming Foundations Certificate
Cascadia College, June 2019

Awards

- Magna Cum Laude
- The Society for Collegiate Leadership and Achievement

Languages

• Arabic
• English