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As a Computer Science student at Worcester Polytechnic Institute with a concentration in Cybersecurity and a minor in Data Science, I am excited to apply my skills in environments where cybersecurity directly impacts the stability and trust of systems and users. I am particularly interested in contributing to efforts that secure sensitive data, ensure compliance with evolving cybersecurity standards, and strengthen defenses against emerging threats, which are all key goals for any cybersecurity analyst. Being able to apply my skills in an environment where cybersecurity plays such a critical role is very meaningful to me.

Through academic and personal projects, I have developed strong skills in Python programming, machine learning, and secure software development. One of my recent projects involved building and testing a neural network from scratch using NumPy and TensorFlow, while another focused on developing a buffer overflow exploit in a sandboxed Linux environment using C and GDB, which reinforced my understanding of secure system design and OS-level interactions. I've also worked with APIs, handled large datasets, and built backend tools using Flask, providing me with a well-rounded skill set. In another project, I developed a binary image classification model that used greedy feature selection and ensemble learning to detect smiles in grayscale images, showcasing my ability to build and optimize machine learning systems using Python and Matplotlib. Below are some of the work I have done.

- Programming in languages such as C, C++, Java, Python, Typescript and PostgreSQL
- Optimization of database performance, analysis of queries, and the creation of functions and stored procedures
- Proficient in multi-threaded programming with C and C++, specializing in thread synchronization, resource management, and performance optimization
- Built a neural network from scratch in NumPy, achieving 90% accuracy on a multi-class classification task
- Trained CNNs in TensorFlow for ASL image classification, reaching over 85% validation accuracy
- Conducted EDA and preprocessing on large datasets (50K+ samples) using pandas and scikit-learn
- Performed advanced vulnerability research including buffer overflows, format-string exploits, race condition attacks, environment variable manipulation, and privilege escalation techniques, along with developing secure code mitigations

Beyond programming, I bring hands-on experience from my role as a Claims and IT Assistant at The Black Car Fund, where I supported cybersecurity efforts by installing protective software and managing sensitive data. I also processed insurance claims using SQL, AWS, and Microsoft Azure, gaining exposure to real-world IT systems in a fast-paced, high-responsibility environment. This role sharpened my ability to prioritize tasks, communicate with stakeholders, and stay organized under pressure. Additionally, I worked with a startup company named EVEWAVE in Copenhagen, where my team and I helped develop its IoT-based plastic packaging system to improve the supply chain in Denmark. I was able to adjust to the startup environment very swiftly, and even found it very fascinating as new ideas and experimentation were often welcomed and encouraged. In both academic and work settings, I've thrived in agile development environments, participated in Scrum-based workflows, and collaborated closely with team members – while also being comfortable working independently to meet tight deadlines.

Please review my custom-made terminal website at https://armanwebsite.onrender.com/ for additional details regarding who I am and my skills. I would love to meet with the company and discuss this position in detail if that is what is best for both parties.

Thank you for your consideration,

Arman Gevorgyan