Raj Patel

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Experience

Cybersecurity Analyst | KBR | April 2021 – Present
- Architected the supplier risk database which allowed for assessments of financial risk for hundreds of subcontractors based on their security hygiene.
- Ensured security systems are up to date with DISA STIG guidelines through assessment of group policies and testing of internal systems.
- Monitored and triaged network traffic on DarkTrace to ensure protection of information systems.
- Created risk assessments of process improvements to increase efficiency while maintaining proper safety and ensured controls are in place to mitigate threats.
- Designed and pipelined a flow for continuous monitoring of time-based controls utilizing AWS services and the Elastic Stack to provide dashboards in Kibana

Performance Computing Research | Drexel University | April 2020 – September 2020
- Developed a high-performance library that allowed users in the research group to run field-theoretic simulations 40x faster than previous serial implementation using CUDA C++.
- Designed testing suite using GoogleTest to ensure quality and achieved 95% code coverage.
- Benchmarked code using Google's Benchmark to find and optimize bottlenecks.
- Generated plots to demonstrate relative speedups for GPU implementation versus the CPU implementation with Seaborn.

Software Engineering | Centauri | April 2019 – September 2019
- Created a Django application to provide an interface to register and access pertinent information, allowing pharmaceutical customer to optimize and organize their workflow.
- Designed and implemented an inventory tracking system for hundreds of chemical compounds, allowing for prompt notifications of shortages to ensure continuity.
- Wrote automated tests in Selenium to ensure functional integrity of application features.
- Collaborated in an Agile team with daily sprints and ensured quality code was integrated after peer review.
- Consistently stayed connected with customer to ensure product met desired specifications.

Skills
- Programming Languages - Python, C, C++, CUDA C++, Go, and JavaScript
- Relevant Software/Frameworks – Git, Selenium, Elastic Stack Django, DarkTrace, GoogleTest, and Benchmark

Education

Drexel University | Bachelor/Master of Science | Anticipated June 2022
- Master: Cybersecurity – GPA: 3.98
- Bachelor: Chemical Engineering – GPA: 3.98
- Relevant Coursework – Machine Learning, Artificial Intelligence, Data Structures, Data Analysis at Scale

Projects

Backend – Weaklink.ai | HackPrinceton 2019 | November 2019
- Awarded Best Financial Hack through a Python Dash application that streamlined stock buying processes.
- Utilized Autocode to link APIs such as Twilio, Capital One's Nessie, and Datatables to record transactions.
- Helped scrape for information by using beautifulsoup4 to gather training data.