

NAYONIKA SEN

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EDUCATION

Northeastern University	Sept. 2024 - Apr. 2026
M.S. in Computer Science, Laurel and Scroll 100	<i>Boston, MA</i>
Teaching	Web Development, Jose Annunziato
Assistant	Software Development, Ben Lerner and Matthias Felleisen
Research	NDIF with David Bau : tools to track and display how AI systems are used

EXPERIENCE

NVIDIA	May 2026 - Present
<i>Software Development Engineer</i>	<i>Santa Clara, CA</i>
<ul style="list-style-type: none">Building release infrastructure and composable build tasks behind NVIDIA AI Enterprise ML containers (Triton, TensorRT, NIMs, RAPIDS)!	
NVIDIA	Sept. 2025 - Dec. 2025
<i>Software Development Intern</i>	<i>Santa Clara, CA</i>
<ul style="list-style-type: none">Developed a full-stack TypeScript/React platform for custom dashboards integrating 10+ systems (Artifactory, Jenkins, Kubernetes), resulting in a 40% reduction in manual release workflows.Built debugging tools for distributed build systems with Jenkins pipeline integration and MITM proxy security scanning, resulting in a 60% reduction in issue resolution time.	
Siemens	May 2025 - Aug. 2025
<i>Software Development Intern</i>	<i>Waltham, MA</i>
<ul style="list-style-type: none">Enhanced an EDA visibility tool (ssrmaputil) with C++ argument parsing and multi-database merging, cutting netlist debugging time by 60%; the project was an Intern Impact Awards finalist.	
Northeastern University	Jan. 2025 - Apr. 2025
<i>Research Intern</i>	<i>Boston, MA</i>
<ul style="list-style-type: none">Optimized large-scale LLM inference with Ray, PyTorch and NumPy on A100 GPUs through CUDA-aware optimizations, achieving 2.3x higher throughput and 25% lower latency.Built a Golang Kubernetes operator to autoscale Ray workers, improving GPU utilization by 35%.	
Visa Inc.	Mar. 2022 - Jul. 2024
<i>Software Engineer, SRE</i>	<i>Bangalore, India</i>
<ul style="list-style-type: none">Built a multi-datacenter AWS solution with VPC isolation and Route 53 load balancing, delivering 33% load distribution for seamless system upgrades at full traffic capacity.Scaled Visa Token Service with Kubernetes deployments, Jenkins CI/CD pipelines and horizontal pod autoscaling, monitoring pod status and logs.Secured online transactions with a 25% improvement by integrating FIDO, WebAuthn and CTAP authentication across data centers.Kept Visa Secure at 100% availability by diagnosing SSL/TLS failures with Wireshark and tcpdump.Automated SSL, connectivity and REST API checks with shell scripts, reducing manual errors.	

TECHNICAL SKILLS

Programming Languages	Python, Go, C, Java, JavaScript/TypeScript, Bash/Shell, PHP
Frameworks & Workflow	Django, React, Temporal, Jenkins, GitLab CI, pytest
Cloud & Infrastructure	Docker, Kubernetes, Helm, AWS, Vault, Grafana, Postgres