

Vincent Trinh

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EDUCATION

University of Nebraska - Lincoln	Lincoln, NE
<i>Bachelor of Science in Computer Science</i>	<i>Expected Graduation: May 2026</i>
<ul style="list-style-type: none">- Awards: Dean's List Recipient- Relevant Courses: Data Structures & Algorithms, UI/UX Design, Computer Architecture, Software Design Architecture, Artificial Intelligence, Machine Learning, Operating Systems, System Design, Distributed Systems, Requirements Engineering	

PROFESSIONAL EXPERIENCES

Software Engineering Intern Nelnet - Lincoln, NE	January 2025 – Present
<ul style="list-style-type: none">- Eliminate 95% of manual reporting workload, by building serverless reporting pipelines (AWS Lambda, Python) that automate 10K+ daily reports.- Improve system reliability and maintainability, by implementing comprehensive unit testing and fault-tolerant AWS integrations (SES, REST APIs) within a CI/CD workflow.- Standardize code quality across enterprise services, by reviewing 50+ pull requests and designing reusable Python modules to reduce code duplication.	
Lead Full Stack Engineer GXKTM.org - Lincoln, NE	September 2024 – Present
<ul style="list-style-type: none">- Engineering a scalable product platform for 1,000+ members, reducing administrative data entry time by 90%, by architecting a containerized Next.js 16 and FastAPI system with a self-service Family Portal.- Guarantee 100% data integrity for critical health records, by designing a normalized PostgreSQL schema with strict Pydantic validation to eliminate duplicate entries.	
Undergrad Teaching Assistant University of Nebraska - Lincoln, NE	August 2024 – December 2024
<ul style="list-style-type: none">- Guided students through data structures, algorithms, and object-oriented programming, strengthening comprehension of core SWE concepts.- Led weekly labs and provided targeted tutoring, driving a 90% improvement in assignment completion for 120+ students.	
Cloud Support Associate Intern Amazon Web Services (AWS) - Seattle, WA	June 2024 – August 2024
<ul style="list-style-type: none">- Drove consensus on scalable architectural decisions, by prototyping serverless solutions and presenting design benefits to senior engineers and cross-functional partners.- Supported millions of concurrent user requests with sub-second latency, by designing high-performance serverless architectures using AWS Lambda and CloudFront.- Increased network throughput by 20% for high-traffic endpoints, by analyzing TCP/IP traffic patterns to identify and resolve complex routing bottlenecks.	
Full-Stack Web & Mobile Developer UVSA Midwest - Remote	November 2023 – February 2025
<ul style="list-style-type: none">- Optimized the mobile product experience for 200+ attendees, by implementing a custom Python/SQL scheduling algorithm that reduced manual planning time by 80%- Enhanced engagement for 1K+ monthly visitors, by developing interactive React/Flutter features and collaborating with cross-functional committees to ensure accurate content delivery.	

PROJECTS

Serverless Game Infrastructure Orchestrator React, AWS Lambda, S3, API Gateway, EC2, IAM	<i>Fall 2024</i>
<ul style="list-style-type: none">- Architected a serverless gaming platform using AWS Lambda and API Gateway to provision instances on-demand, slashing idle EC2 compute costs by 60%.- Designed a secure, auto-scaling backend with IAM role-based access control, supporting concurrent session management for 100+ users with zero maintenance downtime.	
Interactive Algorithm Visualizer & Performance Engine HTML, CSS, JavaScript, React	<i>Fall 2023</i>
<ul style="list-style-type: none">- Developed a high-performance interactive visualization tool for graph algorithms (BFS, Dijkstra, A*), utilizing React state management to render real-time traversal steps for complex grid data.- Optimized execution speed by 30% via heuristic pruning and efficient data structures.	

SKILLS

- **Programming Languages:** Java, JavaScript, TypeScript, Python, C, C++, SQL, HTML, CSS
- **Cloud & DevOps:** AWS (Certified Solutions Architect Associate), Azure, Docker, CI/CD, Linux, Git
- **Web & Frameworks:** React, Node.js, Django, Flask, REST APIs, Flutter