

Ali Younes

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science and Political Science

Expected May 2027

- **Coursework:** Algorithms & Data Structures, Object-Oriented Design, Artificial Intelligence, Database Design |
- **Activities:** Northeastern Wrestling, Powerlifting Club, Arab Student Association.

EXPERIENCE

Amazon

Seattle, WA

Software Development Engineer Intern, AWS CloudFormation

Jun. 2026 – Sep. 2026

- Eliminated a re-registration pattern that had cloned a single resource type into **8,000+** **accounts** across 8 regions by owning the team's highest-priority feature end-to-end: org-wide policy-based sharing of private resource types on the AWS CloudFormation Registry, a tier-1 AWS control plane.
- Delivered the low-level design ahead of the standard intern schedule, then shipped it in production Java across **12 merged code reviews**: 2 new APIs, a DynamoDB table and DAO, and an IAM-style policy evaluator with deny-by-default semantics.
- Cut hot-path DynamoDB cost by reordering type resolution so a strongly consistent, uncached read fires only on true misses instead of **~90%** of DescribeType traffic; redesigned pagination to bound work, not results.
- Built a dual-model AI code-review tool (GPT + Claude) outside assigned project scope; presented it org-wide and was featured on [Kiro's official LinkedIn](#).
- Unblocked the team's stalled beta pipeline with a same-day infrastructure fix.

Philips

Cambridge, MA

Software Development Engineer Co-op, System Integration

Jan. 2026 – Jun. 2026

- Pitched, architected, and shipped a zero-touch PXE mass-deployment platform for a **~1,000-machine fleet** of HP Engage Flex Pro systems, replacing a fully manual USB/file-share imaging workflow in Philips' FDA-regulated PIC iX patient monitoring infrastructure; presented the architecture to 50+ engineers and stakeholders.
- Designed a UEFI Secure Boot PXE chain on Microsoft-signed `bootmgfw.efi`, eliminating per-machine console interaction and custom signing key enrollment while preserving Secure Boot enforcement per PIC iX compliance.
- Stood up the FOG/TFTP server on Ubuntu 24.04 (`dnsmasq` proxyDHCP, `tftpd-hpa`) and built a PowerShell WinPE orchestrator with a FastAPI service for MAC-keyed host config, secrets, and live deployment status.

Top Choice Realty

New York, NY

Frontend Developer Intern

Apr. 2024 – Aug. 2024

- Engineered and launched a full-stack client-management web app (React, Python, SQL) for 20+ office staff: cut client lookup time **85%** (5+ min to 45 s), eliminated **90%** of IT support tickets via self-serve access to 800+ records, and added caching for **3x** faster queries.

PROJECTS

EternalMonitor | eternalmonitor.dev | [GitHub](#)

Mar. 2026 – Present

- *Tech Stack:* Rust, Swift, Metal, FFmpeg, H.264, UDP
- Built a **120 fps** iPad-as-second-display system at 2732×2048 (**136 GitHub stars**): a Rust Windows host captures via DXGI Desktop Duplication, hardware-encodes H.264 (NVENC/AMF/QSV), and streams over UDP; a Swift iPad client decodes with VideoToolbox and renders with Metal. Ships a one-click signed installer with a virtual extended-display driver.

Eternal Rich Presence | eternalrichpresence.dev | [GitHub](#)

Feb. 2026 – Present

- *Tech Stack:* Python, WinRT/SMTC, COM, Discord RPC, Spotify Web API, PyInstaller
- Built a Windows tray app (**250+** **installs**, 35 GitHub stars) that mirrors Apple Music and Spotify playback to Discord: reads now-playing state from Windows SMTC over WinRT with a legacy iTunes COM fallback, uploads live cover art, and registers per-user protocol handlers so a “Listen Along” join link works without administrator rights.

TECHNICAL SKILLS

Languages: TypeScript, C#, Python, Java, C++, Rust, Swift, SQL (PostgreSQL), PowerShell, Bash, JavaScript
Frameworks: React, SwiftUI, FastAPI, Node.js, Express, .NET, SQLAlchemy, Alembic, Pydantic, Vite, Material-UI
Infrastructure & Tools: AWS (CloudFormation, DynamoDB, Organizations, IAM authorization, IaC), Git/GitHub, Docker, MongoDB, Nutanix, VMware vSphere, PXE/TFTP, WinPE, UEFI Secure Boot, PsExec/WinRM, Linux (Ubuntu), CI/CD, Jest/JUnit