

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

- Owned the team's highest-priority feature end-to-end on the AWS CloudFormation Registry, a tier-1 AWS control plane: org-wide policy-based sharing of private resource types, eliminating a re-registration pattern that had cloned a single type into 8,000+ accounts across 8 regions.
- 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.
- Beyond project scope: unblocked the team's stalled beta pipeline with a same-day infrastructure fix; built a dual-model AI code-review tool (GPT + Claude), presented org-wide and featured on [Kiro's official LinkedIn](#).

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 end-to-end across a ~1,000-machine fleet of HP Engage Flex Pro systems for Philips' FDA-regulated PIC iX patient monitoring infrastructure, replacing a fully manual USB/file-share imaging workflow; 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 | [Website](#) | [GitHub](#)

Mar. 2026 – Present

- *Tech Stack:* Rust, Swift, Metal, FFmpeg, H.264, UDP
- Built a low-latency iPad-as-second-display system: 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.

Exerly Fitness | [Live Demo](#) | [GitHub](#)

Jun. 2025 – Present

- *Tech Stack:* SwiftUI, React, TypeScript, Node.js, MongoDB, Gemini AI
- Built a cross-platform fitness app (50+ users) pairing a SwiftUI iOS client (HealthKit sync, barcode scanning) with a React 19/TypeScript dashboard over a shared Node/Express REST API on MongoDB Atlas (JWT + bcrypt); integrated a Gemini AI coach for workout plans and progress analysis; auto-deploys to DigitalOcean.

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