

Ali Younes

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science

Expected May 2027

- **Relevant Coursework:** Algorithms & Data Structures, Object-Oriented Design, Artificial Intelligence, Database Design, Programming in C++, Discrete Structures.

EXPERIENCE

Amazon

Seattle, WA

Software Development Engineer Intern (DoD), Incoming

Jun. 2026 – Sep. 2026

- Joining a Department of Defense team building secure cloud infrastructure supporting U.S. defense and intelligence workloads.

Philips

Cambridge, MA

Software Engineering Co-op (System Integration)

Jan. 2026 – Present

- Spearheaded a zero-touch PXE mass-deployment platform from concept to production across a ~1,000-machine fleet of HP Engage Flex Pro systems supporting Philips' FDA-regulated PIC iX patient monitoring infrastructure; pitched, architected, and delivered end-to-end, replacing a fully manual USB/file-share imaging workflow and presenting the architecture to 50+ engineers and stakeholders.
- Architected 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 – unlocking true fleet-scale automation for a workflow that previously required physical touch on every machine.
- Stood up the FOG/TFTP server end-to-end on Ubuntu 24.04 (`dnsmasq` proxyDHCP, `tftpd-hpa`) and built a PowerShell WinPE orchestrator integrated with an internal FastAPI service for MAC-keyed host config retrieval, secret distribution, and real-time deployment status reporting.
- Contributed to a full-stack VM lifecycle platform (FastAPI + React/TypeScript/Vite, PostgreSQL with SQLAlchemy/Alembic/Pydantic) automating provisioning across Nutanix and VMware vSphere via pyVmomi; built Windows guest post-provisioning automation over PsExec/WinRM (hostname, services, registry, certs, disk expansion, OpenSSH, software install/activation) and a JSON-driven PowerShell + ImportExcel metrics pipeline.

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), cutting average client lookup time by 85% (5+ minutes to 45 seconds) for 20+ office staff.
- Built guided navigation and visual search tools that empowered non-technical agents to independently access 800+ client records, eliminating 90% of IT support tickets.
- Optimized database queries and added caching that accelerated data retrieval 3x, saving 15+ hours weekly in admin work and improving client response times by 60%.

PROJECTS

Moops Bookstore | [Live Demo](#) | [GitHub](#)

Jun. 2025 – Oct. 2025

- *Tech Stack:* TypeScript, React, Node.js, MongoDB, AWS
- Architected a full-stack TypeScript application (React 19 + Node/Express) with JWT authentication, role-based admin controls, and a RESTful API with 8+ endpoints on MongoDB Atlas using optimized Mongoose schemas; deployed to GitHub Pages and Heroku with automated CI/CD and health monitoring.

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

Jun. 2025 – Oct. 2025

- *Tech Stack:* React, Express, PostgreSQL, Docker, JWT
- Developed a full-stack fitness platform managing 1,000+ entries across 50+ users with macronutrient analysis, an admin dashboard, and JWT auth + bcrypt; designed a responsive glassmorphism UI (React hooks, CSS Grid/Flexbox); deployed to GitHub Pages (frontend) and Heroku (backend).

TECHNICAL SKILLS

Languages: TypeScript, C#, Python, Java, C++, SQL (PostgreSQL), PowerShell, Bash, JavaScript

Frameworks: React, FastAPI, Node.js, Express, .NET, SQLAlchemy, Alembic, Pydantic, Vite, Material-UI

Infrastructure & Tools: Git/GitHub, Docker, AWS, Nutanix, VMware vSphere (pyVmomi), PXE/TFTP, WinPE, UEFI Secure Boot, PsExec/WinRM, Linux (Ubuntu), Windows, REST APIs, CI/CD, JWT Auth, Jest/JUnit