Ali Younes

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Education

Northeastern University — Boston, MA
Bachelor of Science in Computer Science and Political Science — *Expected May 2027*

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.
- Built a native Kiro tool for dual-model AI code review (GPT + Claude) outside assigned project scope, used across AWS CloudFormation by **100+ people** and featured on **Kiro's official LinkedIn**.
- Built a Slack bot whose LLM agent on AWS Bedrock took **15+ handoff tickets** per on-call cycle through final review and staging, sandboxed on each caller's cloud desktop under a scoped, **AppSec-approved** IAM role.
- Cut **hot-path DynamoDB cost** on **∼90%** of DescribeType traffic by reordering type resolution so a strongly consistent, uncached read fires only on true misses; redesigned pagination to bound work, not results.
- Shipped the feature 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.
- Ended a **2-day beta pipeline stall** with a **same-day fix** to an unowned infrastructure defect, releasing a backlog of merged code reviews into pre-production while both on-call engineers were tied up.

Philips Healthcare — Cambridge, MA
Software Development Engineer Co-op, System Integration — *Jan. 2026 – Jun. 2026*
Returned part-time in the same role — *Aug. 2026 – Present*

- Pitched, architected, and shipped a zero-touch PXE deployment platform for a **∼1,000-machine fleet** in Philips' **FDA-regulated** Patient Monitoring business, which monitors **600M+ patients a year**; **in production** since Apr. 2026 and used by **50+ engineers** to test high-priority builds.
- 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.
- Kept UEFI Secure Boot enforced with zero per-machine keypresses by PXE-booting Microsoft-signed `bootmgfw.efi` after a custom-signed design needed one per machine; a .NET shim kept the vendor installer unmodified.

Pinnatec Auto — Worcester, MA
Lead Full Stack Engineer (Part-time) — *Sep. 2026 – Present*

- Own Virtual Link, serving **1,000+ users**, as **lead maintainer** on a 3-person team: **41 pull requests merged** across a React Native app, a PHP backend, and ESP32 firmware.
- Stood up CI from zero for both repositories: GitHub Actions verify **7 firmware-to-app contracts**, typecheck, lint, and test the app on every PR, and build and size-check both firmware images; branch rulesets require every check.

Top Choice Realty — New York, NY
Frontend Developer Intern — *Apr. 2024 – Aug. 2024*

- Cut client lookup time **85%** (**5+ min to 45 s**) for **20+ office staff** by building and launching a full-stack client-management web app (React, Python, SQL).
- Cut IT support tickets **90%** with self-serve access to **800+ records**, plus caching for **3x faster queries**.

Projects

Pawtograder | *TypeScript, Deno, Postgres, Supabase, Terraform* | github.com/pawtograder — Aug. 2026 – Present

- Own the **Forgejo service end to end** in migrating Northeastern's autograder (**5,000+ users a semester**) off GitHub to **self-hosted infrastructure**: per-assignment Git hosting, push webhooks, and Coder workspaces.

EternalMonitor | *Rust, Swift, Metal, FFmpeg, H.264, UDP* | eternalmonitor.dev — Mar. 2026 – Present

- Built a **120 fps** iPad-as-second-display system at 2732×2048 used by **2,000+ users** (**175+ GitHub stars**): a Rust Windows host hardware-encodes H.264 and streams over UDP to a Swift iPad client that renders with Metal.

Technical Skills

Languages: TypeScript, JavaScript, Python, SQL (Postgres), Java, C++, C#, Rust, Swift, PowerShell, Bash
Frameworks: React, React Native (Expo), Node.js, Express, FastAPI, SQLAlchemy, Alembic, Pydantic, Tailwind CSS
Infrastructure & Tools: AWS (CloudFormation, DynamoDB, IAM), Postgres, Docker, GitHub Actions, Jest/JUnit
AI: OpenAI and Claude SDKs, AWS Bedrock, MCP, Ollama, Kiro, Codex, Claude Code