# Jack B. Gladowsky

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## EDUCATION

**Northeastern University** - Boston, MA                                                                 Apr 2027 (Expected)
M.S. in Computer Engineering (CV and ML Concentration)                                              GPA: 4.00
**Northeastern University** - Boston, MA                                                                 Apr 2026 (Expected)
B.S. in Computer Engineering                                                                                        GPA: 3.41

## SKILLS

| | |
|---|---|
| Languages & Frameworks: | Python (FastAPI), TypeScript/JavaScript (Node.js, Next.js/React), C, C++ |
| Tools & Platforms | PostgreSQL, Redis, Docker, Git, WebSockets; LLMs, RAG, tool/function calling, pgvector |

## WORK EXPERIENCE

**Software Engineering Co-op @ OnPoint Surgical**                                                    Jan 2025 - Jun 2025

– Delivered the entire setup workflow (surgeon profiles, IPD calibration, AR view presets, site/operation selection) with validation, persistence, and clean service hand-offs to reduce first-time setup errors by 50%.
– Built an upgrade-safe Windows installer (C#, NSIS) with version checks, rollback, and data-preserving migrations for site-specific assets, enabling reliable updates across clinical systems, ensuring success rate of $> 99\%$.
– Standardized provisioning with a hardened Windows base image and imaging process (policy lockdown, driver pinning, firewall/services), eliminating configuration drift and speeding new system bring-up by an average of 3 hours per unit.

**Embedded Software Engineering Co-op @ Emphysys**                                                   Jan 2024 - Jun 2024

– Engineered real-time automatic calibration for an RF surgery device; designed state machines and comms protocols; cut calibration time by 25% and improved accuracy by 10%.
– Built ARM TrustZone application securing treatment payments/amounts; implemented hashing/encryption and OP-TEE RPMB storage for tamper-resistant data.
– Refactored legacy Python GUI to C# (.NET) and added automated testing; increased test throughput by 40% and improved reliability.

## PROJECTS

**Pilot AI**                                                                                                                  Demo
Simulates real audience reactions by embedding social media users as LLM personas, retrieving nearest neighbors to a target ICP using similarity search, and prompting agents to "scroll and react"; outputs sentiment, CTR, and engagement forecasts; scales to 1,000 persona runs per evaluation;
**Tech**: TypeScript, NextJS, Postgres, RAG, LLMs

**SolidAudit AI**                                                                                             Demo — Github
Developed a full-stack AI blockchain cybersecurity platform to audit/analyze Solidity smart contracts, using LLMs and static code analysis to identify critical vulnerabilities and generate actionable, one-click code fixes.
**Tech**: Python, TypeScript, NextJS, FastAPI, LLMs, Blockchain