

James Khadan

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science, Honors Program

Expected December 2026

Achievements: Deans List, Honors Impact Badge, Honors Scholarship

GPA: 3.6/4.0

Major GPA: 3.8/4.0

Relevant Coursework:

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|------------------------------|-----------------------------|-------------------------------|--------------------------------|
| • Discrete Structures | • Object-Oriented Design | • Projects in Cloud Computing | • Foundations of Cybersecurity |
| • Mathematics of Data Models | • Introduction to Databases | • Game Programming | • Computer Networking |
| | • Programming in C++ | | |

TECHNICAL SKILLS

Languages: Python, Java, C#, C++, Rust, TypeScript, JavaScript, SQL

Frameworks & Tools: Git, React, RedHat Openshift, Kubernetes, AWS, Linux, NumPy, Pandas, PyTorch, Docker, Ansible

EXPERIENCE

MFS Investment Management

January 2025 – Present

Full-Stack Software Engineer | Python, TypeScript, React, Red Hat Cloud Services

Boston, MA

- Developing full-stack web applications for non-technical teams focused on supporting **global compliance, reporting, and operational efficiency** across departments
- Saving **over 100+ hours monthly** for the compliance team by developing a high-visibility web portal—originally scoped for 6 engineers over 6 months with a \$500K budget—now actively used and slated for presentation to the CEO and CTO
- Reduced certificate onboarding time from **days to seconds by implementing a global cert manager** for servers across London, Sydney, Singapore, and more, with secure encryption using Fernet
- Increased visibility and traceability of metrics across departments by developing a **telemetry-based reporting portal**
- Automated Excel/PDF parsing and email delivery of regulatory files to stakeholders, eliminating manual monthly compliance efforts
- Deployed scalable builds across dev, testing, and production environments on **Red Hat OpenShift**, laying the foundation for broader internal adoption of in-house software platforms.
- Integrating and deploying an **internal LLM assistant** using Google’s Gemma 3 model across websites on lightweight CPU-only **Kubernetes pods**, improving employee access to internal tools and data through natural language queries.

Lastgateway Enterprise

January 2015 – Present

Founder | Linux, Docker

Howell, NJ

- Founded a Platform/Software as a Service business providing computing resources to over **5 organizations** within my community, reducing server and compute costs by **more than half** that of traditional cloud providers
- Designing, implementing and servicing **over 30+ software resources** simultaneously, significantly increasing customer’s operational efficiency and reducing IT workload
- Maintaining a consistent **99.9% uptime**, ensuring customer’s resources are continuously available

Polygence

April – August 2021

AI Research Assistant | Python, PyTorch

Online

- Researched **suggestion based advertisement** alongside a Stanford University Masters Student to determine an effective model for suggesting new music
- Tested a **neural network** approach to model desired music based on listening history using **PyTorch Lightning**
- Assisted with data cleaning, preparation, and loading for over **1 million songs** used for training the model

PROJECTS

CodeCoach | C#, ASP.NET, React, TypeScript, PostgreSQL, Docker, OpenAI API

April 2024 – Present

- Developing a code tutoring website with over **20 problems** across **4 topics** powered by a personal A.I. Coach for tailored user guidance to increase engagement and learning effectiveness
- Supporting **3 languages** to encompass over **80% of programmers workflows**, enabling wider accessibility, enhancing the learning experience for a diverse user base, and curating a realistic programming environment
- Establishing multiple layers of authentication and security measures to ensure user data integrity is secured

School Bot | Python, PyTorch

February 2021 – June 2023

- Assisted over **2K students** navigate my high school’s block schedule system through an interactive chat bot
- Implemented natural language processing (NLP) capabilities, enabling the bot to handle over **10,000 queries per day** with an **80% accuracy rate**, enhancing user experience
- Increased student punctuality by over **30%** through the automated class reminder and schedule checker systems