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

TECHNICAL SKILLS

Languages: Python, TypeScript, Java, C#, C++, Rust, SQL
Frameworks & Tools: Git, React, RedHat Openshift, Kubernetes, Azure, AWS, Linux, NumPy, Pandas, PyTorch, Docker

EXPERIENCE

Sponsors for Educational Opportunity   June 2025 – Present
Tech Developer Intern   *NYC - Remote*
- Completing **300+ hours** of rigorous computer science and software engineering training focused on data structures, algorithms, and full-stack web development.
- Gaining software development skills by working in **SCRUM-like teams** to design, test, and implement full-stack applications
- Participating in **professional development workshops** and receiving **1:1 mentorship** from experienced industry professionals

MFS Investment Management   January 2025 – Present
Full-Stack Software Engineer Co-op   *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 web portal—originally scoped for **6 engineers over 6 months with a $500K budget**—now actively used and demoed to the CEO and Enterprise Risk Management.
- Reducing resource onboarding time from **weeks to seconds** by developing a self-service onboarding portal.
- Increased visibility and traceability of metrics across departments by developing a **telemetry-based reporting portal**.
- Automated monthly parsing and email delivery of regulatory files to stakeholders, eliminating manual compliance efforts.
- Deploying 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 internal **Large Language Models (LLMs)** with **Retrieval-Augmented Generation (RAG)** techniques to simplify data acquisition and aggregation through natural language interfaces, while maintaining data integrity.

AWS Skills Center   May 2024 – June 2024
AWS Academy Student   *Seattle, WA*
- Set up a highly scalable **EC2 instance** and **Amazon RDS database**, optimizing application performance by separating its components.
- Developed an EC2 Auto Scaling group that **boosted application capacity by 50%** during load tests, automatically adjusting to traffic surges with up to **150 concurrent users**, ensuring uninterrupted service during peak loads.
- Created a Virtual Private Cloud with **4 subnets** distributed across **2 availability zones**, configuring **Elastic Load Balancing** to manage up to **3 EC2 instances**.

Lastgateway Enterprise   January 2019 – January 2025
Founder   *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
- Designed, implemented, and serviced **over 30+ software resources** simultaneously, significantly increasing customers' operational efficiency and reducing IT workload
- Maintained a consistent **99.9% uptime**, ensuring customer's resources are continuously available

Polygence   April – August 2021
AI Research Assistant   *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

EXTRACURRICULARS

Oasis   September 2024 – Present
Mentor   *Boston, MA*
- **Mentoring 80+ students** in full-stack development and project management principles through workshops and one-on-one sessions