Sasha Jovanovic-Hacon

ajovanov@mit.edu | (385)-528-9392 | linkedin.com/in/aleks-jov-hacon/

**EDUCATION**

**Massachusetts Institute of Technology**

*Master of Engineering, Computer Science* Jan 2025 - Dec 2025

* Advisor: Prof. Amar Gupta
* Teaching Assistant for Computer Vision

*Bachelor of Science, Computer Science- Artificial Intelligence and Decision Making* Aug 2021 - Dec 2024

* 4.7/5.0 GPA
* Coursework: Discrete Math, Algorithms 1, Algorithms 2, Machine Learning, Statistics and Probability, Fund. of Programming, Real Analysis, Data Visualization, Computer Vision, Natural Language Processing
* Societies and Activities: Varsity Lightweight Rowing, Phi Sigma Kappa (President)
* Interests: Applied ML research, NLP systems, Human-Computer Interaction

**EXPERIENCE**

***MIT CSAIL, Graduate Researcher***

Cambridge, MA ⏐ Feb 2025 - present

* Research on scalable fraud detection systems using hybrid NLP and deep learning methods to identify spoofed business names
* Mentor 4 undergraduate students and coordinate team milestones

***Uncountable Inc, Software Engineering Intern***

San Francisco, CA ⏐ May 2024 - Aug 2024

* Closed over 100 feature request tickets by efficiently diagnosing and resolving user-reported issues, contributing to faster product iterations and customer satisfaction.
* Developed a new runsheet and table builder feature, which optimized data processing times and enhanced user experience with more intuitive controls and expanded customization options

***MIT Media Lab, Undergraduate Researcher***

Cambridge, MA ⏐ Aug 2023 - Feb 2024

* Led the creation of a transformer-based embedding conversion method to align LLM word embeddings
* Integrated dimensionality reduction (PCA, T-SNE, UMAP) into embedding visualization tools
* Migrated multi-GB embeddings to a vector database, boosting query efficiency by 40%

***Velvet Financial Services, Junior Software Engineer***

Salt Lake City, UT ⏐ May 2022 - Aug 2023

* Built 50+ mobile-responsive web pages as part of the final website; improved cross-device UX
* Developed full-stack features using HTML/CSS/JS, Node.Js, Python
* Supported development of an AI tool to automate onboarding tasks

***Massachusetts Institute of Technology***, ***Teaching Assistant, Physics***

Cambridge, MA | Aug 2022 - Jan 2023

* Served as one of four teaching assistants in a hands-on course with 60 students, meeting three times a week
* Organized and led voluntary exam review sessions and contributed to lesson planning

**SKILLS**

**Programming:** Python, React, Redux, HTML, Go, R, Java, Javascript

**Math:** Machine Learning, Calculus, Statistics & Probability, Linear Algebra, Discrete Math, Differential Equations, Optimization

**World Languages:** Fluency in English, Spanish, and Serbian

**Software:** Github, Docker, Pandas, Tableau, Scikit, Linear, Figma, Material UI, PyTorch, LaTex, Hugging Face