Aleksandar Jovanovic-Hacon

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

EDUCATION

**Massachusetts Institute of Technology** Aug 2021 - Dec 2024

*Bachelor of Science, Mathematics and Computer Science*; 4.7/5.0 GPA

Expected Graduation: December 2024

* Relevant Coursework: Algorithms, Machine Learning, Statistics and Probability, Fund. of Programming, Real Analysis, Computer Vision, Theory of Computation, Data Visualizations

**University of Utah** May 2017 - May 2021

*High School University Program, Gap Year*; 4.0/4.0 GPA

WORK EXPERIENCE

***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

* Spearheaded the creation of an embedding conversion method aimed at harmonizing word embeddings from diverse Large Language Models (LLMs), including GPT-3, BERT, and RoBERTa in the MIT Latent Lab
* Expanded existing embedding visualization tools by integrating advanced dimensionality reduction techniques such as PCA, T-SNE, and UMAP, allowing researchers to uncover patterns in high-dimensional data with greater clarity.
* Migrated multi-gigabyte embeddings into a high-performance vector database, boosting query efficiency by 40% and enabling real-time data exploration for large datasets.

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

Salt Lake City, UT ⏐ May 2022 - Aug 2023

* Developed and deployed over 50 mobile-responsive web pages as part of the final website, contributing to a seamless and user-friendly online experience across various devices.
* Utilized a full stack skill set for front-end (HTML, CSS, JavaScript) and back-end (Node.js, Python) development.
* Aided the creation of an AI tool streamlining investment onboarding, automating document parsing, data extraction, and listing generation.

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

Cambridge, MA | Aug 2022 - Jan 2023

* Guided and instructed a group of 20 students through lab activities and example problems during each class, facilitating hands-on learning and conceptual understanding.
* Demonstrated leadership by voluntarily organizing and leading exam study sessions, drawing up to 50 students and contributing to their exam preparation success.

SKILLS

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

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

**Software:** Linear, Figma (design), Material UI, PyTorch, Numpy, LaTex, Svelte