DAMIANO CARRIOLI

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Sr. Software Engineer, Visa Inc.

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Edu	cation —
Master of Science, Computer Science	Los Angeles, CA
University of Southern California	
GPA 3.462	
Bachelor of Science, Computer Science, Minor in Mathema	tics Los Angeles, CA
University of Southern California	
Magna Cum Laude, GPA 3.75	
Expe	erience —
Sr. Software Engineer	SEP 2022-PRESENT
	SEI 2022-I RESENT
Visa Inc. (Foster City, CA) Designed, built, and tested new features for Visa's B2B connect platform.	orm the non card based, and to and
payment eco-system for businesses. visa-b2b-connect.html	orni, die non-card based, end-to-end
Graduate Researcher	JAN 2022-MAY 2022
FPGA/Parallel Computing Lab (USC)	
Designed, developed, and tested graph neural network (GNNs) kernel improve performance and reduce power consumption compared to inc (PyTorch, PyG, TensorFlow).	
Software Engineering Intern (Paid)	MAY 2021-AUG 2021
Visa Inc. (Foster City, CA)	
Fine-tuned a Bert-based natural language virtual assistant that perform and a set of answer candidates. Leveraged the tool to retrieve informa balances. Also implemented custom scripts and APIs to interface with relevant data.	tion about payment status and account
Pro	ojects
Deep Learning for Cancer Detection (PyTorch)	Autoregressive Language Models (PyTorch)
Compared different deep learning models, including Vision	Strong interest in exploring the capabilities of autoregressive
Transformer (ViT) and convolutional networks on the PatchCamelyon (PCam) dataset for histopathological cancer detection.	language models and experimenting with various types of attention. Implemented and modified different types of attention mechanisms, such as multi-head attention and created my own highly non-linear attention layers.
Si	kills —————
Programming Languages	Machine Learning
Python, C, C++, Java, Scala, SQL.	Proficiency in Python and extensive experience working with deep learning frameworks, including PyTorch, TensorFlow, and JAX/FLAX.
Relevant Grad Coursework	Parallel Programming
Foundations of A. I. Applied Natural Language Processing Foundations and Applications of Data Mining Parallel Programming	Familiarity with various parallel programming paradigms, including CUDA, OpenMP for C and C++, Message Passing Interface (MPI), and Python libraries such as Cupy, Numba, and Pyspark.

Activities -

D1 Track & Field