Yahya Jabary	github.com/sueszli people.ee.ethz.ch/~y	yjabary@ethz.ch +43 650 4012392	Austrian/EU citizen	Ø
Skills	German (native), English (fluent) Dev: Python, Java, JavaScript, C/C++, CUDA Data: PyTorch Lightning, JAX, PostgreSQL, Neo4j, Spark Ops: Docker, AWS, gRPC/Protobuf, Kafka			
Experience	Google, GDG Lead Vienna, Austria 08.2024 - present • Founded Austria's first academic Google Developer Group; a non-profit machine learning community. [link]			
	 ETH Zurich, Research Assistant Led research on alignment and interpretability of vision models, resulting in a top-tier submission. Wrote 16 kLoC of PyTorch code and beat an state-of-the-art adversarial robustness technique by 5% on CIFAR. Parallelized model training and reached speedups of up to 5x using Apptainer CUDA containers and Lightning. 			
	 University of Waterloo, <i>Research Assistant</i> Built and benchmarked a single-stage dense retrieval system for large-scale code and sentiment analysis. Collaborated on a 2%-overhead call intercept/replay system for multi-core applications written in C. Admitted to direct fast-tracked BSc to PhD program based on research performance. 			
	 Erste Bank, Trading Software Engineer Vienna, Austria 04.2023 - 10.2023 Built a low latency CRDT-based database proxy for real-time data synchronization across trading desks. Reduced network overhead for model inference through request batching and brokerless messaging. Identified and mitigated a high-severity data breach vulnerability in production through security audits. 			
	 TU Wien, Research Assistant & Teaching Assistant Built a semantic neural compression benchmark suite for low-bandwidth satelite data transmission. Authored algorithms lecture notes; built OS process scheduling and JVM memory management visualizers. Independently instructed in 5 graduate and undergraduate courses reaching 5,000+ students over 2 years. 			
	 FH Technikum Wien, Research Engineer Vienna, Austria 02.2021 - 03.2023 Wrote a 13 kLoC sensor data processing engine by extending CPython for real-time data analytics. Developed energy consumption forecasting models using ARIMA, achieving an average accuracy of 90%. Optimized build times by 10x for Docker images by allowing precompiled dependencies for development. 			
	Andamp, Intern Vienna, Austria 09.2022 - 10.2022 • Delivered key usability improvements to web app built with Next.js and Firebase cloud functions.			
	Serlo Education, Intern Munich, Germany 06.2018 - 12.2018 • Coordinated local author teams to create math content, reaching over 1.2 million monthly visitors.			
	Maker Austria, Intern Vienna, Austria 08.2017 - 09.2017 • Reverse engineered a 4-axis CNC machine's driver software, showcased at the Vienna Maker Faire.			
Projects	Jabary, Y., Plesner, A., Kuzhagaliyev, T., & Wattenhofer, R. (2024). Seeing Through the Mask: Rethinking Adversarial Examples for CAPTCHAs. [pdf] [code]			
	self-ensembler Zero-cost mailservice Mail servi osue RFC-7230	adversarial robustness through ense		ode]
Education	TU Wien, Master's Degree · Data Science TU Wien, Bachelor's Degree · Computer Science WKÖ, Associate Degree / HAK · Finance			present 2023 2019
	ETH Zurich, Master's Thesis and Project Studentship (top 5 globally) EPFL, Summer Research Institute SURI in ML Security (top 20 globally) University of Vienna, Gifted Program in Mathematics NCoC (top 50 nationally)			2024 2024 2017
Awards	Graduate Research Studer Logic & Computation Inst	l Master's Award of Excellence M-I htship GRS (\$23,081) titute of TU Wien, Research Schola tional Maker Competition Prize (€3	rship (\$1,000)	2023 2023 2021 2018