Bella Nicholson		
♥ San Francisco Bay Area, California, USA % bellanich.github.io in bella-nicholson	• bellanich	American
A resourceful Machine Learning Engineer (3+ years) adept at engineering robust software systems for ML research and deployment. A life-long learner who's well-versed in LLM inference and edge deployment, now keenly focusing on hardware-aware software design. Excited about the intersection of cutting-edge ML research, software engineering, and hardware-aware design.		
EXPERIENCE		
Machine Learning Software Engineer // Netflix // may 2025 - Present	<b>♀</b> Los Gat	os, California, USA
For an iconic streaming entertainment service, I supported ML researchers in foundation models devel  • Engineered and maintained the underlying robust software systems and infrastructure required for t  • Collaborated closely with researchers to implement, optimize, and scale novel foundation model arc	foundation model deve	
Machine Learning Engineer // Brenntag // 🛗 Nov 2023 - Apr 2025	<b>♀</b> Amste	erdam, Netherlands
At the world's leading chemical distributor, I deployed and maintained ML products across 70+ countri  • Migrated a €30M+ annual revenue Al assistant to a more cost-effective and secure AWS platform,  • Developed a real-time notification system to monitor critical ML jobs and model metrics, improving  • Validated and refined the new company ML Platform design in a close collaboration with cross-team	reducing operational co g system visibility and r	eliability
Machine Learning Consultant // Deloitte // 🛗 Sept 2021 - Oct 2023	<b>♀</b> Amste	erdam, Netherlands
At a global consulting firm, I delivered and optimized production-ready ML solutions for diverse clients. Achievements include:  • Stabilized a Dutch e-classified ads platform's "For You" recommendation engine (2000+ lines of code) with a 65% increase in test coverage  • Centralized tracking of 1000+ models and associated experiments for a German steel conglomerate, improving model reproducibility  • Launched a self-paced, ML-focused coding training website to standardize and improve code quality across Deloitte NL		
Computer Vision Intern // Cubelizer //   June 2017 – July 2017		Madrid, Spain
As part of a Google-backed <b>edge computer vision</b> startup, I improved customer detection by 12% for retail space price optimization:  • Developed a video stream-based <b>object detection</b> method in compliance with EU privacy regulations  • Applied image processing and classical machine learning techniques to low-resolution images		
PROJECTS		
Pocket Multi-Modal Large Language Model  Deployed a custom embedded, vision-text foundation model and Google's Gemma 2B model on va  Extended an open source LLM hardware-optimization framework to quantize and optimize a new m  Documented the project implementation, including application solution prototyping, in a detailed 4-  Transformers Decoded: A Guide to Optimizing Large Language Models	nulti-modal LLaVA found	
<ul> <li>Developed a comprehensive study guide on Large Language Models (LLMs), explaining underlying c</li> <li>Covered LLM inference optimization techniques (speculative decoding, flash attention, continuous</li> </ul>		
EDUCATION		
Master of Science, Artificial Intelligence  in University of Amsterdam Cum laude (8.0/10.0)  Sept 2018 - Deci	2020 <b>Q</b> Amst	terdam, Netherlands
<ul> <li>Courses on Al, including Deep Learning, Computer Vision, Natural Language Processing, Information</li> <li>Thesis on "Interpretable Representation Learning for Relational Data" in collaboration with Crunchr</li> </ul>		
Bachelor of Science, Biomedical Engineering  The College of New Jersey  Magna cum laude (3.8/4.0)  Sept 2014 - May	/ 2018	ng, New Jersey, USA
SKILLS		
Programming Languages & Tooling  Python, Git (2016-present), Bash (2018-present), Terraform (2023-present), SQL (2019-present),	Docker (2022-present	)
MLOps Platforms Amazon Web Services (2021-present), Google Cloud Platform (2022-present), Databricks (202	2-present)	
ML Frameworks PyTorch (2018-present), PySpark (2022-present), FastAPI (2021-present), Tensorflow (2021-2022)	2), Keras (2022)	

Russian 50%