Claudio Montanari

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medium.com/@c.montanari.95 WORK EXPERIENCE AI Senior AI Engineer, ELEVANCE HEALTH, Chicago, IL Nov 2024 - Present · Technical Team lead of custom built Serverless Generative AI (LLMs and Embeddings) platform for in-house hosting of Open Source and fine-tuned models with a focus on healthcare. Democratizing GenAI in the company and serving 500+ developers to build the next generation of GenAI applications with dozen of applications in production. AI Machine Learning Engineer, ELEVANCE HEALTH, Chicago, IL DEC 2020 - Nov 2024 · Led Blockchain project for settling healthcare transactions on GoQuorum. · Quantum Machine Learning using Qiskit, PennyLane, and Jax on IBM hardware. · End-to-end data analytics solution for medical claims from SnowFlake to Neo4J: infrastructure, data pipelines, back-end (FastAPI) and front-end (React Native) layers. Deployed infrastructure components from Terraform (AWS stack: EKS, Security Groups, R53 records, Karpenter) to K8s (GitHub, KubeFlow, ArgoCD, GoQuorum). · Data pipelines for the **Asthma Digital Study** (Apple, University of California, Irvine). · Launched Virtual Primary Care pilot to Sydney Health (10M members), with ownership of several back-end layers (order management, pricing, benefits, identity, etc). Mar - Dec 2020 Software Engineer, WEPO INC., Chicago, IL · Implemented back-end systems in NodeJS, Java Spring and Quarkus. Implemented data pipelines for scraping Facebook, Instagram and YouTube accounts. \cdot Deployed and monitored applications in Kubernetes and Grafana on Google Cloud Platform. Jan 2019 - Mar 2020 Graduate Research Assistant, University of Illinois at Chicago, Chicago, IL · Profiled C State-Of-The-Art Delegation library up to Assembly level in a NUMA architecture. \cdot Implemented data and compute scalable solutions for Delegation. · Automated profiling process in Linux environment. SKILLS PROFILING TOOLS Perf, Valgrind, BPF Python, Java, Rust, Javascript LANGUAGES Databases MySQL, Neo4J, MongoDB Frameworks Spring, FastAPI, NodeJS, React Kubernetes, Terraform, AWS, GCP CLOUD **EDUCATION** Master of Science in Computer Science, University of Illinois at Chicago May 2020 GPA: 4.0/4.0Jul 2020Master of Science in Computer Science and Engineering, Politecnico di Milano Final Grade: 110/110 with Laude Sep 2017 Bachelor of Science in Engineering of Computing Systems, Politecnico di Milano Final Grade: 106/110 ACADEMIC PROJECTS Blockchain Development, University of the Cumberlands Mar - Aug 2023 · Implemented and deployed supply-chain applications on Hyperledger Fabric and Ethereum testnets. Performance & Concurrent Computing, UNIVERSITY OF ILLINOIS AT CHICAGO SEP - DEC 2018 · Experimented performance impact of cache locality and false sharing in a multithreaded environment. · Implemented and compared different synchronization mechanisms on a linked list (fine grain locking, hand-over-hand locking, RCU, CAS based lock free). · Evaluated performance impact of inline AVX2 instructions implementing assembly routines. **PUBLICATIONS** Nilanjana Basu, Claudio Montanari, and Jakob Eriksson. Frequent Background Polling on a Shared Thread, Using Light-Weight Compiler Interrupts, pages 1249–1263. Association for Computing Machinery, New York, NY, USA, 2021 ACTIVITIES AND AWARDS Master in Business with Blockchain Technology, University of the Cumberlands 2023 - 2024 · Blended technical and business approach to blockchain technology. · Quarterly project-based residency weekends. Mentor for Ph.D. students, ELEVANCE HEALTH 2021 - 2023 · Led on-boarding, code infrastructure and projects organization. · Highly technical projects with core-business exponential impact (Blockchain and Quantum). Jul - Aug 2023 Qiskit Global Summer School, IBM · Implemented quantum algorithms (teleportation, phase estimation).

IBM Quantum Spring Challenge, IBM

· Implemented phase estimation and error mitigation algorithms with dynamic circuits.

Best overall team with the project "Feel Your City", CHICAGO MOBILITY HACKATHON

May 2023

Nov 2018