MEHDI NASEF

Computer Engineer

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🚗 Driver's license

EXPERIENCE

Researcher

University of Cantabria

📅 October 2023 – Ongoing   📍 Santander, Spain

- Designed Hardware scheduling algorithms for multiprogramming workloads in GPU architectures.
- Developed simulation software in C++ to test and evaluate the performance of scheduling techniques.
- Performance evaluation via simulation and profiling on real GPUs.
- Performed data analysis using Python (Pandas, Scikit-learn and Matplotlib)
- Collaborated in drafting a research paper to publish our findings.
- Developed microbenchmarks using CUDA.

Intern

Siali

📅 May 2023 – August 2023   📍 Santander, Spain

- Researched state-of-the-art computer vision AI models and assessed their real-world applicability.
- Assisted in developing an AI-powered data labeling tool.
- Improved Data Matrix code reader performance to enhance detection accuracy and ensure real-time compliance.

PROJECTS

👤 Interactive Personal Website

- 🌐 https://mehdi.raptoroid.com
- github.com/mehdnas/mywebsite

Currently in its very early stages, the site features a minimal demo (an animated square). The long-term goal is to develop an interactive, game-like experience to present my portfolio and represent personal growth through narrative and design.

STRENGTHS

Eye for detail Fast Learner Innovative Proactive
Analytical Mindset Technically Fluent

High-Performance Computing Computer Architecture
GPGPU

PUBLICATIONS

📄 Journal Articles

- M. Nasef, B. Perez, and J. L. Bosque, "Memory interference aware thread-block scheduling for gpu multiprogramming," Manuscript in preparation for submission to *Future Generation Computer Systems*, 2025.

🎓 Theses

- M. Nasef. "Adaptive memory instruction throttling for reducing contention in gpu architectures." Trabajo de Fin de Master, University of Cantabria. (Manuscript in preparation).
- M. Nasef. "Hardware support for multiprogramming in gpus." Trabajo de Fin de Grado, University of Cantabria. (2023), [Online]. Available: https://hdl.handle.net/10902/30800.

EDUCATION

M.S. in Computer Science

University of Cantabria

📅 Sept 2019 – Sept 2023

B.S. in Computer Science

University of Cantabria

📅 Sept 2023 – Ongoing

LANGUAGES

Arabic
Spanish
English