Pantelis Flouris

Computer Engineering Student

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Profile

Highly motivated fifth-year Computer Engineering student with hands-on experience in High Performance Computing (HPC), Web Development and WSNs. Proficient in C, Verilog, MariaDB, and JavaScript, demonstrated through challenging academic projects. Strong interest in hardware systems and low-level programming, combined with expertise in GNU/Linux environments.

Education

MEng, Computer Engineering   10/2021 – present
University of Patras ⇱   Patras, Greece
GPA 7.22/10

Skills

Web Development
- JavaScript
- Node.js
- Bootstrap 5
- HTML/CSS
- Express

High Performance Computing
- CUDA
- OpenMP / MPI
- SIMD Vectorization (SSE / AVX)

Internet of Things (IoT) & Sensor Networks:
- Sensor networks
- Data transmission
- Energy management

Projects

High Performance Computing Project ⇱
Achieved 10x speedup using AVX intrinsics in WENO5, implemented a hybrid OpenMP/MPI implementation and created a CUDA implementation of a complex multiplication problem, reaching 21500x speedup over CPU.

Wireless Sensor Network with Contiki-NG ⇱
Implemented a WSN that stores Temperature and Humidity data from different sensors in a mongoDB database and later trains different models for predictions.

Company Staff Evaluation DB with Java GUI ⇱
Developed a MySQL database for company staff evaluation, along with a rudimentary graphical interface in Java.