hireme
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Jack Dunne

Profile

With practical experience in high-performance technical computing on large-scale heterogeneous parallel computers, I now seek credentials in scientific/mathematical applications. My academic-industrial career prospects pertain to computational science, HPC systems support/development, and subsequent Ph.D/postdoctoral academic research engineering. I pride myself on my perseverance, and I strongly believe there is no substitute for hard work.

Academic history

BSc. Computer Science

University College Dublin — Stage GPA: 4.0 — Sept. 2022 - May. 2026

ACM40640: *High Performance Computing (ICHEC)*
ACM40660: *Scientific Programming Concepts (ICHEC)*
COMP30250: *Parallel Computing*
COMP20180: *Operating Systems*

ACM SIG-HPC Member

#0849169 — Dec. 2025, present

Professional history

Service engineer

Jun. 2021, present

Serviced, installed, and repaired various appliances in a performance-intensive commercial setting, including but not limited to: diagnosing & programming circuit boards, hardware engineering, design consultation.

Projects

“A Comparative Study of DVFS Governors on High-Performance Platforms for Energy-Efficient Computing”

Research paper — University College Dublin — Sept. 2025 - Apr. 2026

Investigating the implementations & applications of dynamic voltage/frequency scaling governors in the Linux kernel w.r.t. energy-efficient high-performance computing, in collaboration with the Heterogeneous Computing Laboratory.

dwl

Personal project (as contributor) — Open-source software — Dec. 2025, present

A hackable dynamic Wayland compositor for Linux written in C, emphasising performance optimality & minimalism.

Skills

Parallel computing frameworks;
BLAS/ATLAS, POSIX threads, OpenMP, MPI
Parallel cluster management;
architectures, models, performance analysis
C (programming language);
writing, scripting, debugging, testing
Linux systems;
benchmarking, management, operation

References

Available upon request.