



MICHAEL ANDERSON

Senior HPC Developer

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SUMMARY

As a dedicated High Performance Computing Developer with over 8 years of experience, I have a proven track record of designing, optimizing, and implementing complex computing solutions. My background encompasses extensive work in scientific computing, where I utilized parallel processing techniques and advanced algorithms to solve intricate problems in physics and engineering.

WORK EXPERIENCE

Senior HPC Developer Tech Innovations Ltd.

Jan 2023 - Present

- Led the development of an HPC application that reduced computational time by 40%.
- Implemented parallel algorithms using MPI and OpenMP for enhanced performance.
- Conducted performance profiling and bottleneck analysis to optimize resource utilization.
- Collaborated with data scientists to integrate machine learning models into HPC workflows.
- Mentored junior developers in best practices for HPC programming.
- Managed a team of 5 developers in delivering complex simulations for engineering applications.

HPC Software Engineer Global Research Corp.

Jan 2020 - Dec 2022

- Developed and maintained software for high-performance simulations in computational fluid dynamics.
 - Utilized CUDA for GPU programming to accelerate numerical computations.
 - Worked closely with cross-functional teams to define project requirements and deliverables.
 - Performed extensive testing and validation of algorithms to ensure accuracy and efficiency.
 - Assisted in the migration of legacy systems to modern HPC architectures.
 - Published research findings in peer-reviewed journals based on HPC projects.
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EDUCATION

Master of Science in Computer Science, University of Technology

Sep 2019 - Oct 2020

ADDITIONAL INFORMATION

- **Technical Skills:** C++, Python, Fortran, MPI, OpenMP, CUDA, Linux, Performance Optimization
- **Awards/Activities:** Recipient of the Excellence in Engineering Award for outstanding contributions to HPC projects.
- **Awards/Activities:** Published 3 papers in international conferences on parallel computing.
- **Awards/Activities:** Designed a benchmarking tool that is now used by over 50 researchers globally.
- **Languages:** English, Spanish, French