Brem Anand Jagannathan Krishnan

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Profile:

13+ years of experience in Software Product Design, HPC/AI/ML System Architecture, and Development, with global exposure in India, Canada, and the UK.

Technical Skills:

- **Programming:** C, C++, Python, Bash, Perl

- **HPC/Cloud:** Slurm WLM, PBS Pro, Azure DevOps, MLOps

- **Linux/Unix:** System programming, Socket programming, POSIX threads

- **Tools:** gdb, gcc, valgrind, Travis CI, Git, Perforce

- **Testing:** Manual, Regression, Smoke Testing; HP Quality Center, Jira

Professional Experience:

University of Bath, UK

Principal Engineer	Feb 2024 - Present
HPC Systems Developer	Feb 2022 - Feb 2024

- Developed HPC cloud solutions with cost optimization and scalability.

- Enhanced performance for research computing software and built ML models for cost prediction.

Altair Engineering, India/Canada

HPC Cloud Software Engineer	Sep 2019 - Feb 2022
Senior Development Engineer	Jan 2015 - Sep 2019

- Designed next-gen workload management software for PBS Professional.

- Implemented MUNGE authentication and contributed to open-source conversion.

IBM India Software Labs

Software Developer	Apr 2013 - Jan 2015

- Developed tools for AIX OS kernel system call validation using C.

HCL Technologies

Software Engineer	Jun 2011 - Apr 2013

- Implemented network data monitoring tools using C on Red Hat Linux.

Education:

- **MSc Artificial Intelligence, University of Bath** 2022-2025

- **B. Tech in EEE, Pondicherry Engineering College** 2011