

Hariharan Devarajan

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PROFILE

- **3 years** of experience developing software solutions for Oracle Financial Services,
- **2 years** of experience conducting top-tier research for the Scalable Computing Software Lab at Illinois Institute of Technology,
- excellent project-management, and
- exceptional training and mentoring skills.

WORK EXPERIENCE

COMPANY	DESCRIPTION
Illinois Institute of Technology (2 year)	<ul style="list-style-type: none">➤ Research Assistant performing I/O scalability research under Dr. Xian-He Sun for HPC and Cloud environment offering a unified layer for seamless integration of these systems.<ul style="list-style-type: none">○ Convergence of the semantic gap between the Cloud and HPC ecosystems○ Improve distributed I/O path by offering new libraries minimizing I/O time.○ Provide interference free and self-aware solutions of optimizing I/O systems.➤ Teaching Assistant for OOP and Data Structure & Algorithm assisting professor with class management and helping students with coursework for better understanding.
ORACLE FINANCIAL SERVICES SOFTWARE (3 YEARS)	<ul style="list-style-type: none">➤ Designed framework for REST API for product's middleware impacting cloud integrations.➤ Built a new system, through an OS, giving employees development-ready environments.➤ Developed utility for inter-release migration activities for clients enabling migration to a newer version in a day.➤ Mentoring new employees on product framework and design, helping them deliver faster.➤ Performed research on techniques and ideas for product's technological advancements.➤ Awarded "We Applaud Award" for designing framework effecting whole organization.

EDUCATION

DEGREE	YEAR	NAME OF INSTITUTION	CGPA
PHD in CS	2016 – Current	Illinois Institute of Technology, Chicago	3.5/4
B.Tech (Hons.)	2009-2013	NIT, Jamshedpur	8.61/10

RESEARCH INTERESTS

TOPIC	DESCRIPTION
Distributed I/O Systems	<ul style="list-style-type: none">➤ Convergence of Cloud and HPC Ecosystem on a storage level.➤ Enabling Buffering in HDF5 library.➤ Scheduling I/O on shared buffers with low interference.➤ Enable Efficient usage of Deep Buffer systems.➤ I/O intensity metric for Application's Code-block➤ Build Self-aware I/O systems.

PROGRAMMING LANUAGES AND INTERFACES KNOWN

COMFORT	DESCRIPTION
Best	Java, C++, MPI, HDF5, Python, MSSQL, ADF, Shell Script, AngularJS, PL/SQL, JDeveloper, Eclipse
Medium	HTML, PHP, CSS, AJAX, JS, Flash, Adobe Dreamweaver, Adobe Photoshop, After Effects, SQL Developer, SQL Server, WebLogic, Apache Tomcat
Least	J2SE, J2EE, ASP.NET, C#, VB, Ruby, Perl, Swift, XCode, Weka, Visual Studio, Cinema 4D

PAPERS

PUBLICATIONS
<ul style="list-style-type: none">➤ H. Devarajan, A. Kougkas, H-B Chen, and X-H Sun, <i>Open Ethernet Drive: Evolution of Energy-Efficient Storage Technology</i>, in Proceedings of the ACM SIGHPC Datacloud'17, in conjunction with SC'17➤ A. Kougkas, H. Devarajan and X-H Sun, <i>Enosis: Bridging the Semantic Gap between File-based and Object-based Data Models</i>, in Proceedings of the ACM SIGHPC Datacloud'17, in conjunction with SC'17➤ A. Kougkas, H. Devarajan and X-H Sun, <i>Syndesis: Mapping Objects to Files for a Unified Data Access System</i>, in Proceedings of the ACM SIGHPC MTAGS'17, in conjunction with SC'17