

Philip Taffet

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EDUCATION	Rice University , Ph.D. Computer Science, May 2021 (expected) GPA: 4.00 Rice University , M.S. Computer Science; May 2018 GPA: 4.33 <i>Understanding Congestion in High Performance Interconnection Networks Using Sampling</i> Rice University , B.S. Computer Science, B.S. Mathematics; May 2017 GPA: 4.08 <i>Summa Cum Laude, Distinction in Research and Creative Works</i>
SKILLS	Languages and frameworks: C#, C++, Python, MPI, OpenMP, Java Other technologies: Mathematica, Windows Server, Linux, Git, SQL, Vim Language: Fluent in Spanish
EXPERIENCE	Jump Trading Production Engineering Intern, <i>Linux/Re&D Teams</i> Summer 2019 <ul style="list-style-type: none">• Applied insights from my research to boost InfiniBand fabric performance• Built and integrated tooling for proactively addressing fabric health issues Lawrence Livermore Nat'l Lab Summer Student, <i>Livermore Computing</i> Summer 2018, Summer 2017 <ul style="list-style-type: none">• Designed, executed, and analyzed experiments to explore the impact of network locality and congestion on performance of parallel applications• Research selected as best student poster finalist at SC 2017 conference Chevron Corp. HPC Analyst Professional Intern, <i>Emerging Technologies Team</i> Summer 2016 <ul style="list-style-type: none">• Evaluated HPC performance analysis tools by creating a set of mini-programs that exhibit common performance issues• Analyzed and suggested performance improvements to HPC applications Microsoft Corp. Software Engineering Intern, <i>Azure Hyper-Scale Compute Team</i> Summer 2015 <ul style="list-style-type: none">• Designed, built, and integrated a browser-based status monitoring and management portal for Azure Service Fabric clusters• Work featured in Day 2 Keynote presentation at BUILD 2016 Oak Ridge Nat'l Lab Research Program Participant, <i>Future Technologies Group</i> Summer 2014 <ul style="list-style-type: none">• Created profiling tool to collect memory-use heat maps with variable attribution and sub-KB measurement granularity• Built and integrated into web front end new visual and numerical analysis tools for parallel program characterization
ENTREPRE-NEURSHIP	Steward Technology, Inc. Co-founder 2015-2018 <ul style="list-style-type: none">• Co-founded profitable software startup delivering real-time press event analytics for the automotive public relations industry• Interfaced with customers, participated in strategic planning, developed and integrated mobile and cloud applications Windows Store Application Programmer 2010-2012, Fall 2013-2018 <ul style="list-style-type: none">• Created and published several apps for the Windows app store• Over 75,000 total downloads and over \$12,000 in revenue
SELECTED PAPERS AND POSTERS	P. Taffet , J. Mellor-Crummey, "Understanding Congestion in High Performance Interconnection Networks Using Sampling" at SC19 P. Taffet , J. Mellor-Crummey, "Lightweight, Packet-Centric Monitoring of Network Traffic and Congestion Implemented in P4" at HOTI 2019 P. Taffet , I. Karlin, "Understanding the Impact of Fat-Tree Network Locality on Application Performance" at SC17 SRC <i>Best Student Poster Finalist</i>
HONORS	<ul style="list-style-type: none">• Invited Student at Salishan Conference on High Speed Computing, 2019• Winner of Ken Kennedy Institute Cray Graduate Fellowship, 2018• Senior Merit Award for Computer Science, Rice Engineering Alumni, 2017• 51st place worldwide, ICPC World Finals programming contest, 2016• 344th place nationally, W. L. Putnam Mathematical Competition, 2015