

Sudharshan Viswanathan

Purdue University

CONTACT INFORMATION	320 Brown Street, Apartment 517 West Lafayette, IN 47906 Phone: +1 508-654-1337	Visa Status: F1 (Student) Email: viswans@purdue.edu Skype ID: sudharshan.visu
OBJECTIVE	Seeking Internship as a Developer during Summer 2016.	
PROFESSIONAL EXPERIENCE	Morgan Stanley India <i>Quantitative Developer</i> • Date Rolling Library - Developed a Stateless Referentially Transparent Immutable API while refactoring out the dependency on Singleton pattern within the library in C++. Extended functionality to Java using SWIG • Bond Analytics Library - Implementation of feature requests and bug fixes for the proprietary legacy library while matching the industry numbers for the implementation. • Implemented Line Search minimization methods separating callbacks from the minimization algorithm. Mentored an internship project in implementing Trust Region Strategies. Implementations to be used in Calibration scenarios across the bank	July 2013 - June 2015 Mumbai, India
EDUCATION	Purdue University <i>MS in Computer Science</i> Indian Institute of Technology Madras (GPA: 9.06/10) <i>B.Tech in Electrical Engineering, M.Tech in VLSI Design and Microelectronics</i> <i>Final Year Project</i> Implemented and Analyzed the Block Based SSTA algorithm on different MT environments: multi-core and in NVidia GPUs using CUDA while tackling constraints of CUDA architecture. Achieved performance only comparable to serial implementations due to memory bottlenecks.	2015-Present Estimated Graduation: May 2017 2008-2013
TECHNICAL SKILLS	Advanced proficiency: C++ Basic proficiency: Java, Scala, Python, PHP	
ACHIEVEMENTS	• Winner of TAU Contest (Variation aware timing contest) 2013 amongst 7 participating international teams. Implemented a multi-threaded Statistical Timing Tool to run on multi-core CPU architecture. • Selected for the International Olympiad in Informatics Training Camp in India. Ranked in top 25 at the Indian National Olympiad For Informatics. • Selected to represent IIT Madras in the Indo-German Winter Academy conducted in December 2011 by IIT Delhi-FAU Erlangen. Presented a Technical Talk on Resistive Memory Devices	
POSITIONS OF RESPONSIBILITY	Web And Mobile Operations, Shaastra • Led a team of 20 coordinators to completely rebuild website for Shaastra, annual technical festival of IIT Madras - in 2 months with custom backend - improved ease of use for Event Coordinators and Participants • Laid the foundations for an in-house Enterprise Resource Planning(ERP) system for the organizing team of 300 students Election Engineering Team, IIT Madras • Led the Election Engineering team for the Student Body Elections 2011. Implemented a Secure Web Based Voting for a 5000-strong electorate across 20 polling stations	
EXTRA CURRICULAR ACTIVITIES	• Trained in Vocal Indian Classical Music. Participated in solo competitions held in IIT Madras. • Integral part of the Morgan Stanley Cricket team in Corporate Leagues.	