Sudharshan Viswanathan
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CONTACT INFORMATION

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OBJECTIVE

Seeking Internship as a Developer during Summer 2016.

PROFESSIONAL EXPERIENCE

Morgan Stanley India   **July 2013 - June 2015**
Quantitative Developer   Mumbai, India

- 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

EDUCATION

Purdue University   **2015-Present**
MS in Computer Science

Indian Institute of Technology Madras (GPA: 9.06/10)   **2008-2013**
B.Tech in Electrical Engineering, M.Tech in VLSI Design and Microelectronics
Final Year Project 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.

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.