SURYA RAVI KUMAR

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PROFILE

An adaptive and enthusiastic team player with an excellent work-ethic, a penchant for learning, and analytical skill. Interested in System Optimisation, Operations Management and Financial Economics and keen in advancing boundaries by experiencing new and challenging subjects of work.

EDUCATION

Singapore University of Technology and Design (SUTD)   May 2013 - Present
Bachelor of Engineering, Major: Engineering Systems Design
Junior with an interest in Systems Optimisation, Operations Management and Economics with a knowledge of Computer Programming.

Harvard University, Cambridge   January 2016
The Economics of Financial Markets
3 week course going through Money Markets, Money Multipliers, Bond Markets and Equity Markets

WORK EXPERIENCE

Apple Inc., WW Test Engineering Intern | Singapore   May - Aug 2014
- Developed an application using Python and Cocoa to automate the calculation of Gage Reproducibility and Repeatability.
- Simplified the calculation process and reduced testing time from 4 minutes per file to a few seconds per file (made calculations ~48x faster).

Nippecraft Ltd., Process Intern | Singapore   May - Aug 2015
- Examined Planning, Production, Costing and Sales processes and identified sources of inefficiency.
- Developed streamlined processes to address inefficiencies in existing process flow.

SUTD, Student Researcher | Singapore   Oct - Dec 2014
- Designed virtually run economic experiments using z-Tree based on the principals of Game Theory.

LEADERSHIP

ESD Senator, SUTD Student's Association Council   Jan 2016 - Present
- Channelled information and comments from students to faculty and the rest of the administrative heads of the school
- Organised various events to improve cohesion within and generate interest for the Pillar.
- Discussed and voted on decisions affecting the entire school population, with student benefit in mind.

President and Captain, SUTD Soccer Club   Jan 2015 - Jan 2016
- Managed SUTD Soccer team, organising training with coach and friendly games.
- Captained the team in the Singapore University Games 2015.
- Managed allocation of budget towards facilities, coaching, and equipment.

Student Initiatives Executive, SUTD Student Government   Jan 2014 - Jan 2015
- Inspired and facilitated the setting up and running of more than 60 student run clubs and interest groups.
- Participated in the decision making process for allocation of school funding for student run clubs.

Treasurer, SUTD Basketball Club   Dec 2013 - Dec 2014
- Managed club funds of S$ 3000 and planned the budget and expenditure including coaching payments and equipment purchases.

ACADEMIC RESEARCH AND PROJECTS

Team Member, HUAT, SUTD | Singapore   Jan 2016 - Present
- Designed and developed an automated, algorithmic, financial portfolio advisory, with unique use cases for service differentiability.
- Structured service processes along with team mates, along with algorithms for portfolio rebalancing.

Team Leader, Operations Management Project, SUTD | Singapore   Jan - May 2015
- Analysed currently used inventory management system at Penguin Books Singapore.
- Developed alternate inventory management system to help reduce stockout and improve customer satisfaction while minimising loses.

Team Member, Network Modelling Project, SUTD | Singapore   Jan - May 2015
- Visualised the relationship between musical chords using Network Modelling in conjuncture with Dutch startup, Chordify.

Team Leader, Engineering Systems Project, SUTD | Singapore   Sep - Dec 2014
- Analysed demand patterns of materials for SUTD's Architecture studios and Forecasted future demand.
- Developed an inventory management algorithm for stock keepers to help them decide when to purchase materials, while minimising cost and leftover inventory.

Team Leader, Term 2 Design Project, SUTD | Singapore   Sep - Dec 2013
- Conceptualised an energy management system using tokens to incentivise the saving of electricity in homes.
- Developed a C++ application to simulate situations and gather user response when provided with information of energy consumption.

SKILLS AND INTERESTS

Computers: Proficient in Python, C++, Word and Excel
Travel: Have travelled 16 countries in Europe, North America, Africa and Asia.
Miscellaneous: Enjoy trekking, reading, playing music and playing a variety of sports.