

Harpreet Singh

SOFTWARE DEVELOPER

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Eligible to work under Third Level Graduate Scheme, with possibility of extension.

Education

Trinity College Dublin

Dublin, Ireland

M.Sc. COMPUTER SCIENCE, NETWORKS AND DISTRIBUTED SYSTEMS

Sep. 2015 - Sep. 2016

(Expected)

- Modules taken
 - CS7002 - Data Communication & Networking
 - CS7003 - Middleware for Distributed Systems
 - CS7009 - Networked Applications I
 - CS7010 - Software Engineering for Distributed Systems
 - CS7011 - Business Innovation
 - CS7012 - Management of Networks and Distributed Systems
 - CS7048 - Data Communications and Wireless Networking Practical
 - CS7049 - Software Engineering / Middleware Group Project
 - CS7050 - Individual Programming Project
 - CS7051 - Networked Applications II
 - CS7052 - Sustainable ICT
 - CS7053 - Security of Networks and Distributed Systems
 - CS7042 - Research Dissertation
- Projects
 - Designed a Peer-to-Peer Multithreaded Chat Server using Ruby as part of the Individual Programming Project
 - Using Agile Software development process, developed a web server using the MEAN stack and an Android application as part of the Group Programming Project
 - Developed a Web Server Application using the Facebook Graph API and the MEAN stack as part of Networked Applications II

University of Delhi

New Delhi, India

B.Sc. PHYSICAL SCIENCES

July 2012 - June 2015

- Result: I.1
- Project: "Obstruction Avoiding Arduino Robot". Designed an autonomous robot using the Arduino Micro-controller which avoided obstructions in its path. Developed analytical and design skills and experienced working in a team.

Experience

Post Graduate Research, Trinity College Dublin (Prof. Stefan Weber)

Dublin, Ireland

RESEARCHER FOR APPLICATION PATTERNS IN DATA CENTER NETWORKS

Jan. 2016 - Aug. 2016

- Currently researching on Application Patterns employed in Software Defined Networks of Data centers
- Implementing a Software Defined Network that translates Application Patterns/Intent into the Network Topology
- Using Mininet Network Emulator, Python, Ryu Controller and Git, the development of the prototype is done on Linux

Extracurricular Activities

Dublin University Rifle Club

ACTIVE MEMBER

Dublin, Ireland
Sept. 2015 - PRESENT

- Member of the squad for 0.22 small bore rifle

'Ankur' Theatre Society, University of Delhi

ASSISTANT DIRECTOR OF A STREET PLAY

New Delhi, India
July 2012 - March 2014

- Was responsible for managing and creatively driving a cast and crew of 20 people of a street play production of which was critically appreciated in the Delhi University Circuit and won numerous competitions
- Involved in numerous Stage and Street Play Productions which won a lot of competitions at the Delhi University Theatre Circuit

Awards

INTERNATIONAL

- | | | |
|------|---|-----------------------|
| 2010 | 3rd Position , "Quanta, the annual International Competition in Science"-Designed a model motor boat that was made to race among-st other competitors in a swimming pool, with schools from 16 different countries participating | <i>Lucknow, India</i> |
|------|---|-----------------------|

DOMESTIC

- | | | |
|------|---|------------------------|
| 2011 | Michelle's Cup , Awarded for being the best all-rounder student of St. Jude's School | <i>Dehradun, India</i> |
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Skills

Programming	Python, Ruby, JAVA, Node.JS, LaTeX
Web	Express with Node.JS, AngularJS, MongoDB, HTML5
Tools	Git, Vim, Linux, Mininet
Languages	English, Hindi, Punjabi

References

Dr. Stefan Weber

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