YASH SHAH

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OBJECTIVE

- Seeking a Full-time position to maximize learning and application of knowledge from opportunities available. I do not seek to limit myself in any way and am always eager to learn diverse skills that I may come across.

ACADEMICS

- **M.Sc.** in Electrical and Computer Engineering, Georgia Institute of Technology **Graduated: Dec,2015**
  Major: Telecommunication/Network Security
- **B.E**. in Computer Science, Visvesvaraya Technological University, India **Graduated: June, 2012**

COURSES TAKEN

• Intro to Information Security	Advance Computer Security	Computer Network Security
• Broadband Access Networks	Wireless Networks	CAD for Communication Network
• Adv. Programming Techniques	Database Sys, Concepts & Design	Cyber Physical Systems

PROFESSIONAL EXPERIENCE

- **Graduate Teaching Assistant** at Georgia Institute of Technology from May, 2015 – December, 2015.
  - GTA for the OMS-CS Computer Networks course.
- **Plant Manager** at Ashok Rubber Industries from May, 2013 – December, 2013.
  - In-charge of Logistics, Equipment Management and Product Quality Testing.
  - Management of 40+ personnel's working in 3 shifts.
- **Intern/Part-Time** Web Developer at Time Travels Pvt. Ltd. from November, 2012 – December, 2013.
  - Development of the company website and Central Data Management Systems.
  - The system replicates and optimizes the existing DOS based software to an online interface.
- **Intern** at Mark Steels Limited from July, 2012 – September, 2012.
  - Created a centralized Data Management and Reporting Interface connecting remote office systems to a central facility.

PROJECTS

- **BlackThread: Predicting malicious intentions**
  - A web domain classification toolkit built to identify the malicious nature of websites based on content, context, lexical and DNS analysis of the domain with a 96% successful prediction rate.
- **DNSg: Data gathering and Netflow analysis tool**
  - Uses a custom daemon (CAPD) to crawl and collect Netflow data for the Alexa 1M and analyze it for behavioral characteristics. The main contribution of the project was the creation of the CAPD daemon which is used to crawl websites in parallel, while each crawl is isolated from the other, in an effort that it may be expanded upon to capture zero-day malware drops.
- **Unified Services for Home Area Network**
  - Research into the current state of Home/Personal Area Networks and proposed a solution for the unification of the various systems within the Network under a single system.
- **Worm Propagation Modelling**
  - Simulation on the rate of propagation of a worm on various network topologies of varying sizes, to identify its effects on the network and its corresponding when the entire network is saturated with infected nodes.
- **Advanced Programing Techniques – coursework projects**
  - Used advanced techniques and libraries to solve complex mathematical problems or computationally intensive tasks in an efficient manner. Like the use of MPI and Pthreads libraries to perform 2DFT on image files, used OpenGL and CUDA to create animations of Icosahedron and Mandelbrot Set plot and GNU MP library to implement RSA Encryption and Decryption algorithm.
- **Undergraduate Capstone Project**
  - Optimized computer based DNA sequencing algorithm using the Hadoop Distributed System framework to reduce the total time taken in the processing of a DNA string alignment.

TECHNICAL SKILLS

- **Programming languages**: C/C++, Python, Java.
- **Others**: Php, JavaScript, jQuery, Shell, Html5/CSS3, Django, CakePhp, Slim, Jekyll, Scrapy, Scapy.

SOCIAL AND EXTRA-CURRICULAR

- Member of Eta Kappa Nu – Beta Mu Chapter (HKN - ECE honor society).
- Member of Georgia Tech Grey-Hat Security Club and DC404 - DefCon Atlanta Chapter.
- Chaired as Head of Technical Events for Infinity intercollegiate competition, 2012.
- Chaired as Head of Resource Management for Knowledge Utsav National Conference, 2011.
- Secured 2nd and 3rd position in Programming & Debugging contest at Infinity Fest, 2010-2011