Paranjay Sharma

(412)-961-5754

5735 Hobart Street, Apt#3

paranjas@andrew.cmu.edu

Pittsburgh, PA 15217

in.linkedin.com/in/paranjaysharma

Education

Carnegie Mellon University – Pittsburgh, PA **August 2016**

Institute for Software Research, School of Computer Science

MSIT in e-Business Technology || Cumulative GPA: **3.83**

Rajiv Gandhi Technical University – Indore, M.P., India **June 2014**

Medicaps Institute of Technology & Management

Bachelor of Electronics & Communication Engineering

Skills & Proficiency

- Programming Languages: Java, JavaScript, Python, C, C++
- Web Technologies: Spring MVC, Hibernate, J2EE, AngularJS, AWS, HTML5, CSS , AJAX, jQuery, Bootstrap, Node.js
- Tools: Eclipse, MySQL, Apache Tomcat, Apache Solr, Lucene, Adobe Dreamweaver, Adobe Muse, Sublime
- Relevant coursework: JAVA, J2EE Web App Development, Data Structures & Algorithms, Client Side Web Technologies
- Areas of Interest: Full Stack Web Developer, Software Engineer, Mobile App Developer

Experience

e-Business Practicum Project (Won 2nd Prize in Practicum Competition, CMU)

Tiversa: Mining Dark Web, auto detect malware spreading IPs & monetize 40 TB Peer2Peer files **Jun 2016 – Aug 2016**

- Scrape over 40 TB of malware infected data from the 15 PB data-store of a Pittsburgh based cyber-security firm "Tiversa", who are the only firm to monetize the dark web data collected from all P2P networks (Tor, Gnutella, Direct connect, etc.),
- Auto detection system to detect unusual behavior & trends in the data scraped from Dark Web
- Trend identification of zero-day infection & other malware spread through P2P network, developed a database to store over 700 million rows of metadata, optimized the query time from several minutes to milliseconds,
- Built a web application using Spring MVC & Hibernate to provide tools to monetize the data, provide analytics and multi-search capabilities to visualize all key statistics for the clients as well as data analysts of Tiversa,
- Developed a custom algorithm to determine the list of potential offending IPs (spreading malware on Dark Web), which will help clients of Tiversa (FBI, DHS) to catch cyber criminals.

Projects

Trip advisor cross-platform mobile application for PAAC **Apr 2016 – May 2016**

- Developed a trip-advisor mobile application for Port Authority of Allegheny County, which provided features like real time bus location on Google maps, estimated arrival time, all the routes b/w origin & destination, etc.
- Implemented the functionalities by which users can plan their trips and find details of all PORT buses running in Pittsburgh.

Data Mining & Decision Tree to predict customer behavior based on historical data **Mar 2016 – Apr 2016**

- Developed kNN algorithm to predict the new customer's behavior based on the historical data of the existing users.
- Built a Decision Tree to determine whether the new products will be successful based on buying habits of users.
- Implemented an algorithm to predict the set of products which would appeal to the specific age categories.

Address-book web application using AngularJS, JavaScript & jQuery **Feb 2016 - Mar 2016**

- Developed an address book web application using AngularJS framework and JavaScript language, through which users can access all their contacts, info, pictures, add/delete/modify contacts
- Implemented the functionalities using client side web technologies such as jQuery, AJAX and web sockets.

Mutual Funds web application & Web Services **Jan 2016 – Feb 2016**

- Developed a Mutual Fund Web Application for customers & employees to self-manage their accounts using MVC architecture.
- Designed the user interface for the prototype & built the database using MySQL and Generic DAO for data access.
- Built the API for the prototype, exposed the functionalities of the system as Web Services & provided analytics capability.

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Privacy Technology: Web app for customer enrollment in compliance to HIPAA privacy rules **Apr 2016 – May 2016**

- Developed a full stack web based app, which enrolls customers for the Giant Eagle Advantage Card, in accordance to HIPAA Privacy Rules in order to ensure full privacy of the customers
- Designed an auditing webpage for the compliance officers, using which they can audit and visually inspect enrollment with evidence of compliance with relevant regulations.
- Developed an algorithm which generates the customer data set containing only those fields that are permitted under disclosure requirements of HIPAA Privacy Rules, for the purpose of sharing that data with the advertising partners.

User Interface Design for UPMC Pharmacy Website **Oct 2015 – Nov 2015**

- Designed the user interface screens for UPMC Pharmacy website which offered graphically rich user experience
- Designed the product pages which provided a full list of each products, which the customers can select and purchase
- Conducted contextual inquiries with multiple users, in which they tested the UI & provided their feedbacks.

Search Engine Optimization **Feb 2016 – Mar 2016**

- Improved the website of Carnegie Financial Services, which was poorly ranked and couldn't be indexed by the search engine
- Optimized all the webpages of the website, which would enable the webpages to be found and indexed by the search engine
- Enabled the webpage search rankings to be highly ranked by implementing the search engine optimization techniques and identifying the significant keywords.

e-Payment: Seamless payment & Scan Based Trading for Walmart **May 2016 – Jun 2016**

- Designed a phone app and a server software supports seamless payment & shopping for the customers shopping at Walmart
- Designed the payment system for Walmart which makes Scan Based Trading (SBT) payments and a system to handle Vendor-Managed Inventory (VMI)
- Designed the payment flow algorithm which explains how Walmart will communicate payment orders to financial institutions holding its money.

Software Design for automated garage-parking system **Nov 2015 – Dec 2015**

- Designed and developed a state-of-the-art garage parking system, which allowed customers to reserve parking spaces and manage their monthly subscriptions
- Built the high level system architecture and designed the detailed static, dynamic and physical perspectives for the garage parking system
- Implemented the key functional requirements and quality attributes with consideration to technical constraints for the system.