MANOHAR KATAM

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OBJECTIVE

Seeking Intern/Co-op position during Summer/Fall 2017 which offers key participation, team oriented tasks, immediate challenges and career opportunity.

EDUCATION

Master's in Computer Science (Data Science) The University of Texas at Dallas   GPA: 4.0/4.0   Expected May 2018

Relevant Coursework: Web Programming Languages | Database Design | Machine Learning | Analysis of Algorithms & Data Structures | Advanced Computer Networks | Discrete Structures | Probability and Statistics with R and MATLAB

Bachelors in Electronics &   Indian Institute of Space
Communication Engineering   Science and Technology, India   GPA: 8.16/10   May 2015

TECHNICAL SKILLS

- Languages   : Java, Python, C++, R, MATLAB, SQL, LaTeX2.09/2e
- Web technologies   : HTML, CSS, Bootstrap, JavaScript, JQuery, AJAX, XML, JSON, and PHP
- MEAN Full Stack   : MongoDB, Express JS, Angular JS, Node JS
- Databases   : MySQL, MS SQL, OracleDB, NoSQL-MongoDB
- Web Tools   : Bower, Grunt, Gulp, Yo, Yeoman, REST Services
- Web Frameworks   : 3-tier, MVC, MVVM, Mobile First, Less, Sass, Baas
- Operating Systems   : Windows XP/7/8/10, Red Hat Linux, Macintosh
- Tools   : Eclipse, RStudio, MATLAB, GitHub, MS OFFICE, MySQL, PyCharm, CodeBlocks

WORK EXPERIENCE

Web page Developer   UT DALLAS   Jan 2017- Present

- LaTeXing the professor's research work papers and conference presentations and converting LaTex2.09 files to LaTeX2e files.
- Developing web page for professor which sorts the research papers based on year, keywords, co-authors, title, paper type.

GSNA-SDG Scientist/Engineer   Indian Space Research Organisation (ISRO), India   Aug 2015- Jul 2016

- Developed GUI in MATLAB for on the fly downloading of DDOR data of Mars Orbiter Mission (MOM).
- Developed Python scripts for converting UT timestamp to IST timestamp for smooth Ground Station Operations during night.
- Upgraded the temperature monitoring controller GUI for Hydrogen Maser room's temperature and humidity maintenance.
- Involved in Launch phase Ground Station simulations of Astrosat, IRNSS 1E & 1F and Cartosat-2C Satellites.

Research Intern: Indian Institute of Space Science and Technology, India   Jan 2015 – May 2015

- Proposed two variants of sparse channel estimation algorithms for Massive MIMO Systems-one of the architectures proposed for 5G Wireless Comm. Systems using applied techniques of compressed sensing and sparse NLMS algorithms.

ACADEMIC PROJECTS

3-tier e-commerce application: (HTML, CSS, BootStrap, JavaScript, jQuery, Ajax, JSON, PHP, MySQL)   Spring 2017

Designed and developed a fully functional 3-tier e-commerce application constituting of costumer and user maintenance, categories, brands and products maintenance, multiple shipping and billing addresses per customer, cart, orders, shipments and returns management and subscription orders with due dates management.

MEAN full stack restaurant application: (MongoDB, ExpressJS, AngularJS, NodeJS, BootStrap, JSON)   Spring 2017

Designed and developed a restaurant application with MEAN full stack. Implemented customer maintenance, table reservations with number of people and type of room criteria and orders with serve hot/cold criteria.

Machine Learning Algorithms: (Java, Python, R, Data Structures)   Spring 2017

Developed programs and scripts for pre-processing the given data and analysing the pre-processed data with Decision trees (ID3), Multi-layered Neural Networks, Naïve Bayes, SVM, Random Forest, kNN, Bagging and Gradient Boosting classifiers.

Fog Computing in IoT: (Java, Multi-threading, Synchronization, Collections)   Fall 2016

Developed and implemented following protocols on fog node: a) Forwarding or Processing of an IoT request based on ForwardLimit, VisitedNodes and MaxResponseTime, b) Periodic ResponseTime updates between neighbour fog nodes c) Best Neighbour determination based on VisitedNodes and MaxResponseTime and d) Forwarding to Cloud node and Cloud node processing.

LEADERSHIP/ORGANIZATIONS

- **CS Outreach Instructor, UT Dallas**: Taught high school students the basics of web page design, Java, JavaScript and graphic tools like Game Maker, Alice thus introducing magical world of Computer programming in an enjoyable manner.
- **Organizer, Committee Member**: Finance & Workshops, Conscientia'12 and 13- annual Techno Fest at IIST, India.

Work Authorization: F-1; **Available**: Summer / Fall 2017