ADITYA DAKUR

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EDUCATION

Texas A&M University, College Station, Texas   GPA: **4.0 / 4.0**
Master of Science, Management Information Systems   May 2018

- *Member of Texas A&M Cyber security club*
- *Member of Business Information Technology Students (BITS)*

Vellore Institute of Technology University, Vellore, India   GPA: **3.95 / 4.0**
BE, Information Technology,   May 2013

- *Joint Secretary, Student Council (2011-2012)*
- *Student Coordinating Committee Member, Gravitas 2011, International Technical Fest of VIT University*

WORK EXPERIENCE

Juniper Networks   Sunnyvale, CA
Software Engineer Intern   *Aug 2016 – Present*
- Implemented a Model-driven automation library in Python to remotely configure network devices by leveraging data models to accelerate automation and deliver network architecture using MongoDB data store for caching
- Developed the framework, data models, methods using NETCONF and YANG to configure and implement services on devices

Hubvents   Hyderabad, India
Software Development Engineer   *Jun 2013 – Jul 2016*
- Led a team of 3 to build from scratch a real-time tracking and reporting application for the Internet of Things(IOT) based product SmartTrack in Python, MySQL, HTML and JavaScript ;deployed for an average of 10,000 attendees
- Collaborated with a team of 5 to build range of SaaS based software modules in PHP using MVC design
- Developed a notification system with Java and MongoDB; increased customer engagement by 30%
- Automated unit testing, production testing in JUnit, Selenium; provided support to up to 100 users daily

Pittnachioff Quantitative Finance   Hyderabad, India
Developer (Part-time)   *Oct 2013 - Mar 2014*
- Organized data flow architecture through ETL and created an application leveraging predictive modeling methods
- Analyzed historical financial stock markets data of last 30 years using RESTful Yahoo Finance API, HTML, AngularJS, PHP and MongoDB; improved overall functionality, speed and reduced operational costs by 15%

Azri Data Engineering & Visual Analytics   Hyderabad, India
Developer (Part-time)   *Aug - Oct 2013*
- Identified data requirements and prepared data mappings and dictionaries for a data mining tool for United Nations Development Programme with help of Python, HTML, jQuery and d3.js; reduced maintenance costs by 7%
- Designed Business Requirement Documents, performed GAP analysis to analyze data from more than 5 million people

S&P Capital IQ   Hyderabad, India
Software Developer Intern   *May - Jul 2012*
- Delivered a revised reporting dashboard for database monitoring and employee performance tracking in HTML, CSS, JavaScript and Microsoft SQL Server database; demonstrated thorough understanding of SDLC process
- Facilitated monitoring of 1500 employees and 10 servers; assisted senior decision making across 4 departments

Microsoft I-spark Lab, VIT University   Vellore, India
Student Developer   *Aug– Oct 2012*
- Conceptualized 'Billit', a phone app to track and manage bill payments; selected from over 100 contestants

RELEVANT PROJECTS

Data Trends Visualization generator   *Mar – Jun 2015*
- Designed and implemented a tool that generates interactive, shareable Web visualizations of diverse datasets using MongoDB, ExpressJS, AngularJS and Node.js

Real time trends Based on Data Extraction & Sentiment Analysis of Forum Comments   *Jun – Sep 2014*
- Developed a prototype that uses of both data mining concepts and natural language processing techniques to process large amounts of data in the form of online discussions from forums to produce active trends

Roundcube Auto Login external auth module   *Feb – Mar 2014*
- Scripted a plugin to login to Roundcube, a free and open-source web-based IMAP email client, from external third party application in PHP

Multi-domain Email client using Kanban board workflow   *Jan – Mar 2014*
- Developed an application using IMAP/SMTP/POP3 to manage emails and files and show these as kanban boards, with associated notes and comments

Excess demand trend analysis of stock market data   *Oct – Dec 2013*
- Application using Excess demand trend analysis and Susceptibility indices of stock market data of past 25 years to determine stock vulnerability based on Tsallis statistics

Data-mining tool for "A Million Voices: The World We Want" report,
United Nations Development Group   *Aug – Oct 2013*
- A data-mining tool which enables people to engage, visualize & analyze peoples' voices on sustainable development for Post 2015 Development Agenda using R, PHP, MongoDB and d3.js

Tourism Management Portal   *Feb – May 2012*
- Created a portal using PHP, MySQL and Twitter Bootstrap; demonstrated the understanding of full SDLC

MAJOR PUBLICATIONS

- "Eavesdropping and interception security hole and its solution over VoIP service" presented and published in 2014 IEEE Global Conference on Wireless Computing and Networking (GCWCN), Lonavala, India

- "Trustworthy Coordination of Web Services Atomic Transactions for Net Banking" published in International Journal of Scientific and Engineering Research, Volume 4, Issue 10

PATENTS

- Method and Tool for Interactive Generation of Clinical Trials Budgets and Real-time. International Patent Pending PCT/IB2015/057024 filed September 14, 2015

TECHNICAL SKILLS

- **Operating Systems:** Unix, Linux, Windows
- **Programming Languages:** C++, Java, PHP, Python, HTML, CSS, JavaScript, AngularJS and Node.js
- **Databases:** SQL (MySQL and Oracle), NoSQL (Mongo DB, Redis, Neo4j)
- Completed Module One of Cisco Certified Network Associate [CCNA]
- Scored 93 percentile on Brainbench's JavaScript 1.8 Certification test
- Top 11% of all users as of Jan 2017 on StackOverflow, a popular programming Q&A site

COMMUNITY/VOLUNTEER EXPERIENCE

Make a Difference, Hyderabad, India

Ed-Support Volunteer   *Jul 2014 – Apr 2015*
- Worked as an Ed-Support Volunteer for a NGO to mentor and teach 10th grade children at shelter homes and orphanages in Hyderabad, India.

AWARDS, HONORS & LEADERSHIP EXPERIENCE

- Coordinated the 1st National Level Conference on Energy Efficient Computing at VIT University.

- Finished in top 10 of TAMU-ctf competition showcasing excellent forensics, cryptography and reverse engineering