KHUSHAL NAVANI

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EDUCATION

University of Maryland – College Park   Aug 2016-May 2018
Masters, Information Management   **GPA: 3.80**

Vivekanand Education Society's Institute of Technology – University of Mumbai, India   Aug 2009-Jun 2013
Bachelor of Technology, Computer Engineering   **GPA: 3.90**

PROFESSIONAL EXPERIENCE

University of Maryland (Office of Institutional Research, Planning, and Assessment)   Feb 2017-Present
Graduate Assistant
- Development of Web portal for hosting Tableau reports

Paladion Networks: (Cyber Security) - Navi Mumbai, India   Dec 2014-Aug 2016
Software Engineer
- Engineered, developed, and designed the User Interface of the application conforming to the latest standards
- Developed 15+ custom and reusable chart plugins in D3.js to eliminate cost of depending on external paid chart libraries
- Initiated the big data visualization module, implementing 10+ interactive dashboards with more than 10K data points
- Identified huge files (HTML/CSS/JS), rewrote and restructured them to reduce loading times by 50%
- Optimized the performance of SQL queries by 95% by removing cursors and implementing complex queries and joins

Indus Valley Partners: (Hedge Fund Consulting) - Mumbai, India   Jun 2013-Nov 2014
Associate Software Engineer
- Implemented an Order Management system for a hedge fund client – designed the database ER, visual mockups, coded the business logic layer and the data access layer over a REST architecture, developed a responsive UI
- Constructed a migration summary for a project from .NET 2.5 to .NET 4 and from SQL 2005 to SQL 2012. Implemented the same providing overall 30% optimization, allowing parallel loading of more files, reducing delay in loading files by 1 hour
- Developed 10+ custom reports using MS SSRS to visualize data and hence facilitate management decisions
- Increased accuracy and efficiency of ETL mechanism by 30% by automating it using SSIS and shell scripts
- Optimized and improved 10+ PL/SQL codes to ensure faster data retrieval and report generation
- Troubleshot 5+ bugs/issues reported by the client per week and resolved them in timely manner

Affinity: (Contextual Advertising) – Mumbai, India   Jun 2012-Jul 2012
Web development Intern

Ayi Bo Solutions Pvt Ltd: (E Learning) – Mumbai, India   May 2011-Jul 2011
Database Management Intern

ACADEMIC PROJECTS

Exploratory Data Analysis - IMDB dataset   Sep 2016-Dec 2016
Identify the factors responsible for the success of a movie measured by both ratings and gross revenues and find how production houses can invest in new movies based on these factors.

Information Analysis and Data visualization – Toxics Release Inventory(TRI) System   Sep 2016-Dec 2016
Analyze the TRI report from year 2000 to 2015 and identify which regions are under threat from pollutants and how the waste disposal can be minimized via recycling, re use and energy conversion. Developed dashboards in tableau and R for storytelling.

Mumbai road traffic analysis and Simulation   Jun 2012-Jun 2013
Use of rotation of standardized public transport bus wheels as a measure of traffic density for more accurate results than GPS. Use of Bus stops as nodes in a network graph and roads as links. Provide alternatives routes rerouting (Implemented before Google Maps)

College Website and Linkart – Ecommerce platform and auction portal   Jun 2011-May 2012
Developed and designed a College Website, which provided overview of the college and acted as a CMS while providing a dedicated student and teacher portal. Developed Linkart – an ecommerce platform for all forms of art, which included a live auction portal.

Sudoku Solver   Jun 2009-May 2010
Coded 9 recursive techniques to solve a Sudoku puzzle, was able to solve puzzles from easy to medium level.

TECHNICAL SKILLS

Data Analytics: R   **Data Visualization:** Tableau, R, D3.js, Highcharts, Google charts, Fusion Charts
Databases: MS SQL, MySQL, Hive   **Programming:** Java, ASP .NET
Web: HTML 5, JavaScript, CSS3, jQuery, Angular JS(1.x), Bootstrap
Tools/Software: MS SharePoint, MS Visual Studio, Eclipse, SVN, Visual Paradigm, MS Office Suite, Google Maps API, SSIS, SSRS