Sudeep Basnet

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SUMMARY

Dedicated, career-oriented individual with professional experience in Software & Database Development, and scientific research. Graduated with a master's degree in Computer Science. Has worked in Agile methodology and used technology such as Python, C#, TypeScript, R and JavaScript on Windows and Unix platforms.

SKILLS

Programming:	Python, C#, Typescript, JavaScript, HTML/CSS, R, SQL, NoSQL
Other Technical:	NodeJS, Angular, Vue, GIT and SVN, Data Analysis, Data Visualization, Database Development, Azure Fundamentals, JIRA, Snowflake DW, MicroStrategy, Markdown Documentation

EXPERIENCE

Technical Consultant –Software Development & Data Warehousing | Oct 2019 – Current
Logic Information Systems, Bloomington, MN

    Software Developer | May 2020 – Current
- Developing omni-channel e-commerce solutions with C#, TypeScript, and HTML/CSS in .NET and .NET Core.

    Data Warehouse and BI Developer | Oct 2019 – Feb 2020
- Debugged and resolved issues in reporting dashboards, using MicroStrategy Developer, MicroStrategy Architect and MicroStrategy Intelligence Server.
- Designed Cloud Data Warehouse and ETL pipelines in *Snowflake* along with stored procedures in *JavaScript*, automated data loading with *Python*.

Graduate Research Assistant | Jan 2017 – Aug 2019
University of Nebraska – Lincoln (UNL)
- *Scientific Data Analysis* and data management using *Python* and *R* with packages like *scipy*, *scikit-learn*, *pandas* and *numpy*, utilized parallel computing on Nebraska's second-fastest High-Performance Computing servers.
- Developed a scalable clustering algorithm in *Python* to perform unsupervised learning on GIS data, with performance gain up to 60% compared to state-of-art algorithms. Published and presented research paper.
- Development and management of *PHP* backed application with data visualization using *HTML/CSS*, *KnockoutJS*, *Google Maps JavaScript API* and *MySQL* database. (cse.unl.edu/~surge)
- Developed Agent-based simulation model in *Java* to simulate and predict social unrest on a geographic and temporal scale. (github.com/sudbasnet/SocialUnrestMAS)

Data Software Engineer | July 2012 – Dec 2016
Cotiviti Nepal Pvt. Ltd. | Kathmandu, Nepal | (*Subsidiary of COTIVITI HEALTHCARE, Waltham MA*)

    Software Development – JSP, HTML, CSS | Dec 2015 – Dec 2016
- Software Development using *Java* and *Oracle 11g* on Windows and UNIX platforms. Involved in Integration, Analysis, Design & Development, Testing and Production support phases.

    Data Engineer – Oracle 11g/12g | July 2012 – Dec 2016
- Implemented Oracle *PL/SQL* procedures, functions, triggers and packages for data management and statistical report generation. Developed ETL procedures, documented and validated complex rules for data transformation
- Optimized multiple large clients by 60 – 70% in processing time using parallel processes, re-designing back-end jobs, performance tuning, normalization and query optimization.

EDUCATION

Master of Science, Computer Science (GPA: 3.8) | Jan 2017 – August 2019
University of Nebraska – Lincoln (UNL)
  Relevant Courses: Design and Analysis of Algorithms, Data Structures, Machine Learning, Networking, GIS

PERSONAL PROJECTS

- **CallBreak – An Online Multiplayer Card Game using RESTful API** (NodeJS, TypeScript, VueJS, WebSockets): github.com/sudbasnet/Callbreak-Frontend-Vue
- **Personal website** (Angular): https://github.sudbasnet.io