

Mengü Sükan

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EDUCATION

Columbia University, New York, NY

Master of Science, Computer Science, Expected August 2009, Vision and Graphics Track, GPA 3.93/4.00

Recent Course Work:

* Computer Vision * Computer Graphics * Biometrics

University of Wisconsin - Madison, Madison, WI

Bachelor of Science, Industrial Engineering, 2002, GPA 3.54/4.00

Relevant Course Work:

* Intro to Human Factors * Computer Architecture (MIPS) * Digital System Fundamentals
* Simulation Modeling & Analysis * Intro to Stochastic Processes * Planning Large-Scale Complex Sys.

EXPERIENCE

ZS Associates, New York, NY (2005-2008), Evanston, IL (2002-2005)

Consultant (2006-2008), Associate Consultant (2004-2005), Business Information Specialist/Associate (2002-2004)

Designed and built analytical systems to support large pharmaceutical companies in their sales force and marketing efforts.

*** Agent-based Simulations**

Led a small team (4-5 associates) that explored using agent-based simulations as a forecasting tool in pharmaceutical markets. Designed and coded an engine to simulate (and animate) daily interactions between patients and physicians using Java (~17,000 lines). Utilized data-mining techniques to uncover distributions from a high-volume insurance claim database to be used as input in the simulations. Performed what-if analysis to project the impact of likely future events (e.g. new product launches).

*** Executive Dashboard Design & Implementation**

Conducted research on best practices for representing key business metrics in an executive dashboard for a mid-size pharmaceutical company. Coded Edward Tufte's "sparklines" (a.k.a. microcharts) as a custom function in Excel. Created a VBA macro to load raw data into Excel and export calculated metrics into PowerPoint every month with minimal supervision.

*** High-volume data processing**

Revamped the process for performing incentive calculations for the sales force of a top 10 pharmaceutical firm (8,000+ representatives). Eliminated unnecessary complexity/processing through a streamlined data flow optimized for performance. Created parametrized, well-documented macros using SAS to apply custom business rules/exceptions in a transparent way.

*** Large-scale Effort Optimization**

Helped improve the methodology for allocating global constraints to sub-problems in large-scale optimizations. Collaborated on an algorithm that guides the model towards a solution by progressively adjusting the bounds of hard-to-satisfy constraints based on the results from previous iterations (Sample problem: Allocating the effort of 6,000+ sales representatives optimally between 200,000+ physicians based on profitability across 10+ products while subject to 200+ constraints).

SKILLS

Programming: Java (generics, JUnit, SLF4J, Swing), C++, OpenGL, LISP, Flex, SQL, SAS, VBA, PHP, JavaScript, CSS
Languages: Turkish (native), German (intermediate)

OTHER

Graduate Record Examination (GRE), October 2007, Quantitative: 800, Verbal: 580, Analytical Writing: 5.0

Immigration Status: U.S. permanent resident