

Simon Skates

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Education and Training

May 2012

Georgia Institute of Technology – Atlanta, Georgia, United States

B.S. Industrial and Systems Engineering

Industrial and Systems Engineering GPA: 3.58/4.0

Deans List: Fall 2008, Fall 2009, Spring 2011, Fall 2011

Major Related Coursework: Supply Chain Modeling: Logistics, Supply Chain Modeling: Manufacturing and Warehousing, Advanced Optimization, Simulation Analysis and Design, Methods for Quality Improvement, Stochastic Manufacturing and Service Systems, Engineering Optimization, Supply Chain Economics, Regression and Forecasting

Experience

Data Manager - Neurological Clinical Research Institute at MGH

March 2013- Present

Work with project managers, systems, coordinators and investigators to facilitate the study. Managing the data required from start of the trial through to the closing out of the study.

- Create and automate SQL logic checks to ensure data quality and consistency to allow for statistical analysis
- Develop and design Electronic Case Report Forms (eCRFs)
- Validate study-specific eCRFs to ensure that all functions work as designed
- Standardize eCRFs across for current and future clinical studies
- Train clinical research coordinators and site investigators on the use of the Electronic Data Capture system and provide assistance for any problems that users have with the system
- Retrieve data and generate reports as requested from the database as requested by senior staff

Senior Design Industrial Engineer

November 2011 – May 2012

Working with a team of seven to design and implement a process improvement and scheduling program for operating rooms for a local hospital with revenue in the hundreds of millions.

- Responsible for programming main portion of project, leading meetings with hospital administration and faculty
- Built GUI to display scheduling from bin packing algorithm and sequencing heuristic, with output sent to new excel file listing optimized schedule.
- Performed analysis on 22,000 pieces of data to create a scheduling optimization program in order to save the hospital 500,000 dollars/year and creating capacity for additional revenue streams.
- Currently, project has estimated value of six million USD with a significant potential for increasing patient satisfaction and reducing wait time.

Intern at Learning With Alisha

March 2011 – March 2012

- Developed web market to improve user experience and flow through the website

Referee Southeast Rugby Referee Society

January 2011 – January 2012

- Refereed matches in the men's, women's, collegiate and high school divisions

Lifeguard Massachusetts Institute of Technology Aquatics

June 2009 – May 2013

Swim Instructor Massachusetts Institute of Technology Aquatics

May 2013- Present

Skills

Programing: Python(proficient), SQL(proficient), Java(working knowledge), Matlab(working knowledge), Xpress Solver(working knowledge), R(working knowledge)
Software: AutoCad(working knowledge), Inventor(working knowledge), Simio(working knowledge), Excel(working knowledge), Power Point(working knowledge)

Leadership

Captain of Georgia Tech Rugby Team 2010-2011

- Led team during inter-collegiate matches

Phi Kappa Theta

- Homecoming chair 2010
- Athletics chair 2009