

Raz Saremi, Ph.D.

510-260-3274 | raziehl.saremi@gmail.com | <https://www.razsaremi.com/> | <https://www.linkedin.com/in/raz-saremi/>

SUMMARY OF QUALIFICATIONS:

- 8+ years of experience in data driven, and cross-functional positions.
- 6+ years of experience in empirical research, predictive modeling, machine learning, evolutionary computation, and simulation.
- 3+ years of experience in managing technical teams.

EMPLOYMENT HISTORY:

▪ ***CROWDSOME***

Founder and Principal Researcher

Oct 2020- Present

- Lead and design the product market release scheduling to optimize the project duration, budget, resource allocation and market share using evolutionary algorithms.
- Manage and recommend strategies for schedule release plans based on the market situation and company policy.
- Supervise 1 research scientist and 2 data analysts.

▪ ***SERCUARC***

Research Scientist/Team Lead

June 2018- Oct 2020

- Led, designed and developed a recommendation system to predict the evolution of technological advancements based on different digital data sources using embedded systems, network science, and tree-based forecasting models.
- Designed, simulated, and recommended strategies based on game theory to optimize market involvement.
- Designed and managed data collection, data quality, and data assessment.
- Led and developed monthly, quarterly, and annual technical reports.
- Supervised and trained 5 data analysts.

▪ ***STEVENS INSTITUTE OF TECHNOLOGY***

Adjunct Professor

Aug 2018- Present

- Special Topics in Software Engineering, Graduate Level
- Software Testing and Quality Assurance, Graduate Level
- Informatics and Software Development, Graduate and Undergraduate Level

Research Assistant – School of Systems and Enterprises

Sep 2014- July 2018

Hybrid Simulation Model for Crowdsourced Software Development Processes

- Led, designed, developed, and evaluated a hybrid dynamic simulation framework to predict task success ratio in competitive crowdsource platforms based on the TopCoder framework.
- Managed study design, strategy design, hypothesis generation, protocol development, analysis, and report delivery
- Mentored and trained 3 master’s students.

▪ ***OPENASSEMBLY(START-UP)***

SaaS Systems Engineer (Part-Time)

May 2015 – June 2016

- Supported SaaS software product launch by identifying market opportunities, have a clear understanding of customer needs and contribute to defining product vision and strategy that are in line with evolving business dynamics.
- Engaged with the platform development and BIA teams to define and articulate guidelines for non-US customer support and developed materials and strategies to enable implementation.

▪ ***CELGENE***

Global Supply Planner (Contractor through US-Tech Solution)

Feb 2014 – Sep 2014

- Supported the launch of a new product(Otezla) in North America and EMEA by developing, publishing, and analyzing the global demand and clinical and commercial supply plan, balance inventory and capacity of both API and finished materials.

▪ ***MERCK & CO, INC***

Global SAP Logistics Specialist (Contractor through RCI Technologies)

Feb 2013 – Dec 2013

- Supported the launch of the internal clinical and commercial supply tacking dashboard, SWIM.
- Managed and monitored commercial and clinical trial material distribution among global sites (Americas, Europe, Asia) to meet the lead time, capacity issues, execute purchase order documents and perform financial closeout.

▪ **HITT PHARMACEUTICAL GROUP (START-UP)**

Senior Planner and Supply Chain Engineer Feb 2009 – Dec 2011

- Lead and established the demand and forecast models, trained the clinical and commercial supply and production model, and managed and developed sales and operations analysis reports and meetings.
- Managed expanding the company and launching 13 new sales and distribution centers and cross-trained a total staff of 40 people.
- Engaged with the software development team to design, develop and evaluate the ERP system.
- Hired and trained 2 supply planners, 1 demand planner, and 4 logistics analysts.

▪ **MCTOUGH PHARMACEUTICAL DISTRIBUTION CO.**

Logistics and Distribution Planner June 2004 – Feb 2009

- Managed the integrity of inventory accuracy to support financial and business strategies and objectives for multiple business units handled of 28 distribution sites.

EDUCATION:

▪ **Ph.D. in Systems Engineering**

Stevens Institute of Technology, Hoboken, NJ Aug 2014 – Aug 2018

Dissertation: A Hybrid Simulation Model for Open Market Development Processes

▪ **Master of Engineering in Systems Engineering**

Stevens Institute of Technology, Hoboken, NJ Jan 2012 - May 2013

Thesis: Design a Distribution System in Supply Chain for a Distribution Company

▪ **Bachelor of Science in Industrial and Systems Engineering**

Azad University (Southern Tehran Campus), Tehran, Iran Sep 2004 - Feb 2009

HONORED AND AWARDS:

- Ph.D. Research Assistantship Award Academic Years: 2014-2015
2015-2016
2016-2017
- Ph.D. Teaching Assistantship Award Academic Year 2017- 2018
- Best Teaching Assistants Award, American Society of Engineering Management(ASEM) May 2018
- Provost Fellowship Program Award, Stevens Institute of Technology May 2018
- Best Ph.D. Student Research, Systems Engineering Research Center (SERC) Oct 2018
- Outstanding Ph.D. Dissertation, School of Systems and Enterprises, Stevens Institute of Technology May 2019
- Nominated for Best Paper Award, International Conference on Enterprise Systems Information (ICESI) April 2021

TECHNICAL SKILLS:

- **Programming Languages:** R, Python (scikit-learn, spaCy, SciPy, spark, Keras, TensorFlow), SAS
- **Database and ERP:** SQL, SAP, Oracle EBS, Mongo DB
- **Modeling and Simulation Methods:** Monte Carlo, Evolutionary Algorithms, Agent-Based, Discrete Events, Systems Dynamic, Dynamic Probability Modeling
- **Modeling and Simulation Tools:** VINSIM, Mathematica, Anylogic, NetLogo, Gephi
- **Statistics and Analytical:** Data Mining Techniques, Machine learning, Deep Learning, Network Science, Natural Language Processes, Statistical Analysis
- **Supply Chain Design and Planning:** Kanban, Lean Planning, Production Planning, Task Scheduling, Forecasting, Supply Planning
- **Data Visualization:** D3.js, Tableau, Dash, Plotly, Bokeh, Shiny