

Ram Duriseti, M.D., Ph.D.
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Educational Background:

Engineering:

- **9/01-5/07:** Doctoral degree from the Stanford University School of Engineering with a concentration in Decision/Risk Analysis, Machine Learning, and Clinical Decision Support. Coursework included Decision and Risk Analysis, Probability and Statistical Inference, Bayesian Networks, Machine Learning, Computer Science, and Clinical Informatics. Funded through a VA Medical Informatics Fellowship.
 - Computing Background: C++, Java, Matlab, C, Ruby On Rails, Javascript and HTML with Ajax, Drools (JBoss Rules Engine), controlled medical terminology deployment (IMO services, SNOMED-CT, RxNorm, and other UMLS resources), Apelon server deployment, LISP, PostGreSQL, MySQL, JBoss application server, UNIX environment, Visual Basic (Excel Modules), Git, Subversion and Mercurial version control

Medical and Undergraduate:

- **11/97-11/2001:** Residency training in Emergency Medicine at Stanford Medical Center.
- **5/96:** M.D. with highest honors, University of Michigan Medical School
- **6/92:** B.S. in Biology, and B.A in Political Economy, with distinction Stanford University.

Select Relevant Employment Experience:

11/00 – Present: Clinical Associate Professor, Stanford Emergency Department. Contacts: Dr. Bernard Dannenberg and Dr. Matthew Strehlow. Numbers available upon request.

3/01- Present: Mills Peninsula Emergency Medical Associates shareholder. President and CEO until 6/2017

6/08 – Present: Founder, CEO, and Product Engineer (principle algorithm and product design architect) for ShiftRx, L.L.C. ShiftRx provides the ShiftGen service that provides a cloud based enterprise workforce management tool. Key elements: machine learning algorithms, schedule optimization, workforce management, revenue cycle management with payroll integration, Java, Ruby on Rails, MySQL, SaaS on ec2.

10/08 – Present: Special consultant and subject matter expert to Sutter Health for Epic EHR implementation. Provided technical design for the billing extracts to migrate clinical information into a file sharing framework for billing companies supporting Sutter Emergency Medicine groups. Contacts: Multiple. Numbers available upon request.

4/15 – 3/2017: CEO and subsequently CTO and CMO of LifeQode Inc. which provides the Lifesquare product. Helped craft and secure 4 different patents, with continuations, around the central business processes for the product. Contacts: Larry Leisure and Steve Shulman. Numbers available upon request.

7/09 – 10/09: Technical consultant to Rise Health, Inc.. Contacts: Eric Langshur, Forrest Claypool, and Inder-Jeet Gujral. Numbers available upon request.

1/07 – 9/08: Chief Medical Officer and Director of Medical Informatics for Enfold, Inc. Responsibilities include design and implementation of intelligent medical functionality and a taxonomy engine as well as oversight of medical content driving the system. Implementation

details: Java, Ruby on Rails, Drools, Apelon Server, Oracle 10g Database, MySQL. Contacts: Inder-jeet Gujral, Kimberly Higgins-Mays. Numbers are available upon request.

10/06 – 3/08: Medical Informatics Director Working Group Stanford University Hospitals and Clinics CIS Initiative. Particular emphasis on hand held technology integration into the Epic Initiative and organizing patient encounter level reportable data on clinical documentation events. Contacts: Kevin Tabb, President and CEO Beth Israel Deaconess Medical Center. Contact information is available upon request.

6/05 – 12/06: Design and implementation of an attribute matching expert system in Java as a consultant to Wellnet Inc. Implemented in a Java environment with Hibernate DBMS and MySQL. Contacts: Kimberly Higgins-Mays. Number available upon request.

Select Research Experience:

7/11-Present: Design and implementation of a computational model for stochastic stimulation of the cost-effectiveness of various strategies to diagnose pediatric appendicitis (manuscript in progress).

10/05-Present: Design and implementation of an asymmetric cost Support Vector Machine to evaluate a large clinical database on chest pain patients presenting to the University of Pennsylvania Hospital Emergency Department (manuscript in progress).

09/02-9/04: Medical Informatics Fellow, Palo Alto Veteran's Administration Hospital.

04/03-Present: Development of Bayesian decision network for evaluation of the clinical utility of the quantitative Vidas ELISA Ddimer Assay. Published work listed.

02/04-Present: Bayesian decision network implementation modeling reasoning in the clinical domain of chest pain and associated pathology in the Emergency Department.

6/05-3/06: Using portable digital devices to generate a standard electronic medical record that can be downloaded directly to a relational database to facilitate data mining for prospective clinical research.

11/99 – 4/00: Retrospective chart review to examine the incidence of electrolyte and cardiac enzyme abnormalities in patients presenting to the Stanford Emergency Department with Supraventricular Tachycardia.

Select Administrative Experience:

6/09 – Present: CEO and Founder of ShiftRx, LLC

6/09 – Present: Regional Information Services Steering Committee for Sutter Health

6/08 – 6/18: President of CEO of Mills Peninsula Emergency Medical Associates

9/12 – 3/17: Acting CMO and CEO of Lifesquare, Inc.

6/07 – 9/08: Chief Medical Officer and Director of Medical Informatics at Enfold, Inc.

5/05-9/08: Member of Medical Informatics Director Working Group and RFP phase of evaluation for the Epic initiative at Stanford University Hospitals and Clinics

4/05-6/06: Served on the Mills-Peninsula Health Information Management and Medical Records Committee.

Select Honors and Distinctions:

- Guest Lecturer at the Wharton School of Business (University of Pennsylvania) 2007/2008/2009 for health economics and information technology course
- VA Medical Informatics Fellowship
- Alpha Omega Alpha Medical Honor Society

- Graduation with Distinction from the University of Michigan Medical School (top 5%)
- Recommended for Graduation with Distinction from Stanford University
- National Merit Scholarship Recipient
- Telluride Foundation Fellow

Select Papers and Publications:

- Lowe, T., Brown, I., Duriseti, R. “Emergency Department Access During COVID-19: Disparities in Utilization by Race/Ethnicity, Insurance, and Income”, *Western Journal of Emergency Medicine*; April, 2021
- Duriseti, R., Brandeau M. “Cost-Effectiveness of Strategies for Diagnosing Pulmonary Embolism Among Emergency Department Patients Presenting with Undifferentiated Symptoms”, *Annals of Emergency Medicine*; October, 2010
- Duriseti, R., Wu, T. “Gastrointestinal introduction and abdominal pain – Pediatric Abdominal Pain in the Emergency Department”, *A Practical Guide to Pediatric Emergency Medicine*, Cambridge University Press, Cambridge, 2010
- Duriseti, R. “Musculoskeletal Trauma: fractures”, *A Practical Guide to Pediatric Emergency Medicine*, Cambridge University Press, Cambridge, 2010
- Duriseti, R. “Using Influence Diagrams in Cost Effectiveness Analysis for Medical Decisions”, *Optimization in Biology and Medicine*, Auerbach Press, New York, 2008
- Duriseti, R. “Non-Bayesian Classification to Obtain High Quality Clinical Decisions”, *Optimization in Biology and Medicine*, Auerbach Press, New York, 2008
- Duriseti, R., Shachter R., Brandeau M. “Implications of a Sequential Decision Model on the Use of Quantitative D-Dimer Assays in the Diagnosis of Pulmonary Embolism”, *Academic Emergency Medicine*; July, 2006
- Duriseti R, VanderVlugt T. Paroxysmal supraventricular tachycardia is not associated with clinically significant coronary ischemia. *ACEP Abstracts. ACEP Scientific Assembly 10/2001*
- VanderVlugt T., Duriseti R. Electrolyte findings in patients with paroxysmal supraventricular tachycardia. *ACEP Abstracts. ACEP Scientific Assembly 10/2001*
- Contributing Editor for Trauma Reports for the topic, “Trauma in Pregnancy”; published 2/2001
- Duriseti R. Cost Effective Management of Common Infections in the Emergency Department. Resident Reporter. Wyeth Ayerst Resident Scholars Program. March, 2000

Select Professional Lectures:

- Commonly Encountered Statistical Concepts in the Emergency Medicine Literature
- Medical Decision Making, Clinical Information Systems, and Cost Control: Complexity Collides with Uncertainty