**Timothy Rozario**

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PROFILE

Highly motivated and result oriented data scientist with a passion for building scalable learning systems that address ambiguous and undefined real-world problems ­­ Successfully led cross-functional teams in analyzing large data sets and uncovering key actionable insights, identifying trends and measuring performance Frequent speaker at top conferences on data science

EDUCATION

**University of Texas at Dallas – Dallas, USA**

**Doctor of Philosophy in Computer Science : GPA 3.86 / 4.0 2010 - 2015**

* Led 3-member team investigating novel techniques to optomize Radiation Therapy
* Published two high impact medical physics journal papers
* Presented at top international conferences

**Anna University – Chennai, India**

**Bachelor of Technology in Information Technology : GPA 3.80 / 4.0 2002 - 2006**

* Led 3-member team to 1st prize in the final semester project for creativity and originality using virtual reality – 1st among 300
* Captained table tennis and quiz teams to regionals – top 3% in 270 schools

TECHNICAL SKILLS

**Machine Learning:** classification, regression, clustering, generative models like GANs

**Statistical Methods:** time series, regression models, hypothesis testing, principal component analysis and dimensionality reduction

**Software and Programming Languages:** Python – packages such as numpy, scipy, pandas, scikit-learn, keras, tensorflow, JAVA, C++, C, JAVA Script, Matlab, SQL, Linux, LaTeX

**Selected Coursework:** Data Structures, Algorithms, Probability and Statistics, Statistics for Data Science, Machine Learning and Deep Learning in Python

RELEVANT WORK EXPERIENCE

**Software Programmer : Siemens Automation Division Partner Frontal Software 2007 - 2009**

* Successfully designed and implemented SMART FOUNDARY app for top 5 Asian foundary that reduced cost by 13%
* Led 3-member team designing and implementing Intelligent event reporting system for Global 500 pharmaceutical that increased productions by 15%

**Post Dcotoral Fellow - Data Scientist: UT Southwestern Medical Center, Radiation Oncology 2015 - Present**

* Designed and built production-ready deep-learning model for tumor detection that halved the gold standard error margin
* Built and deployed clinical tool with machine learning that automates tumor-site organ detection accurately while saving 50% time
* Created and heading inter-institutional big data cleaning initiative using deep learning for imporving clinical best practices

**Research Intern : UT Southwestern Medical Center, Radiation Oncology Summer 2015**

* Designed and built anomaly detection model for lung cancer for tracking tumor motion using image processing.

**Research Assistant : University of Texas at Dallas, Erik Jonsson School of Computer Science 2010 - 2015**

* Designed and built novel tumor tracking models in lung cancer that reduced industry gold standard error from 3mm to 1.6mm
* Designed and built anomaly detection model for lung cancer for tracking tumor motion using image processing.
* President of Grads of Computer Science: Introduced industry pertinent courses; partnered with tech giants AT&T, Amazon to

**Teaching Assistant : University of Texas at Dallas, Erik Jonsson School of Computer Science 2011 - 2015**

* Taught and assisted data-structure, algorithm and programming courses. Received student evaluations in the 95th percentile.

SELECTED AWARDS AND RECOGNITION

**National Scinece Foundation NSF** : Received outstanding researcher scholarship in 2014 and 2015 – 15 recepients nationally

**Cancer Prevention Research Institute of Texas CPRIT** : Received travel scholarships and a grant for projects - 2015 to present

**BIOWEBSPIN : #1 Academic - Industry Partnering Network** : Award for high-impact customer centered product development

PERSONAL

**Thron Fellowship** (Summer 2011): Awarded to top 3rd or 4th year PhD student in Dept. of Mathematics at CU – Boulder

**Chancellors Fellowship** (2008-2010): Top graduate fellowship at CU – Boulder; only 10-15 awarded each year at CU