

ADALBERT GERALD SOOSAI RAJ

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RESEARCH INTERESTS	Computer Science Education, Instructional Design, Curriculum Design, Human Computer Interaction.	
EDUCATION	Interdisciplinary program in Computer Sciences & Education, UW-Madison	Aug 2013 - present
	Ph.D. in Computer Sciences and Education Advisors: Prof. Jignesh M. Patel and Prof. Richard Halverson	
	Department of Computer Sciences, UW-Madison	Aug 2013 - May 2015
	M.S. in Computer Sciences CGPA: 3.93/4.0	
	College of Engineering Guindy (CEG), Anna University	
	B. Tech in Information Technology	Aug 2006 - May 2010
	CGPA: 9.24/10.0	
TEACHING EXPERIENCE	University of Wisconsin-Madison, USA	
	<i>Instructor</i>	
	CS 537 - Introduction to Operating Systems	Jun 2017 - Aug 2017
	CS 368 - Learning Modern C++	Sep 2016 - Dec 2016
	CS 302 - Intro to Programming in Java	Jun 2016 - Aug 2016
	CS 354 - Machine Organization and Programming	Jan 2016 - May 2016
	CS 402 - Teaching Computer Science to K-12 students	Jan 2015 - May 2015
	<i>Teaching Assistant</i>	
	CS 302 - Introduction to Programming in Java	Jan 2014 - May 2014
	CS 367 - Introduction to Data Structures in Java	Jan 2014 - May 2014
	Epic Systems, Verona, Wisconsin, USA	
	<i>Instructor</i>	
	CS 537 - Introduction to Operating Systems	Sep 2017 - present
	CEG, Anna University, Chennai, Tamil Nadu, India	
	<i>Guest Instructor</i>	
	Introduction to Data Structures in C	Feb 2016
PROFESSIONAL EXPERIENCE	Pivotal, Palo Alto, California, USA	
	<i>Database Intern</i>	Jun 2015 - Aug 2015
	Worked as a database intern at Pivotal, during the summer of 2015, after Pivotal acquired Quickstep. The project that I worked on during my internship, was to develop NUMA-aware algorithms and data structures, for performing efficient NUMA-aware hash joins, on large datasets.	
	Teradata-Aster, San Carlos, California, USA	
	<i>Software Engineering Intern</i>	Jun 2014 - Aug 2014
	As an intern in database group, worked on improving the graph performance in Aster database's Graph Engine, which is based on Google's Pregel: a system for large-scale graph processing.	
	University of Wisconsin-Madison, Wisconsin, USA	
	<i>Project Assistant</i>	
	Worked as a software developer in bioinformatics for a human genome project with Associate Professor Scott Kennedy at The Department of Genetics and Biotechnology.	
	Sandvine Technologies Private Limited, Bangalore, India	
	<i>Software Developer</i>	
	Apr 2012 - May 2013	
	As a part of a three member development team, developed the diameter stack for Policy Traffic Switch (PTS) based on the RFC 3588 using C++.	

Cisco Systems, Mobile Internet Technology Group, Bangalore, India
Engineer, Software Engineering

Sep 2010 - Apr 2012

Worked in the development and testing of Diameter Credit Control Application (DCCA), the online charging interface between the Gateway GPRS Support Node (GGSN) and the Online Charging Server (OCS) using C programming language and TCL.

PUBLICATIONS

Computer Science Education

What Do Students Feel About Learning Programming Using Both English And Their Native Language? (in press) Apr 2017

Adalbert Gerald Soosai Raj, Kasama Ketsuriyonk, Jignesh M. Patel, and Richard Halverson.
5th International Conference on Learning and Teaching in Computing and Engineering,
University of Hong Kong, Hong Kong.

Graph Databases

The case against specialized graph analytics engines. Jan 2015

Jing Fan, Adalbert Gerald Soosai Raj, and Jignesh M. Patel.

7th Biennial Conference on Innovative Data Systems Research (CIDR 2015),
Asilomar, California, USA.

PAPERS UNDER SUBMISSION

Does Native Language Play a Role in Learning a Programming Language? Aug 2017

Adalbert Gerald Soosai Raj, Jignesh M. Patel, and Richard Halverson.

49th ACM Technical Symposium on Computer Science Education (SIGCSE 2018),
Baltimore, Maryland, USA

Teaching Modern C++ using a Top-Down Approach Aug 2017

Adalbert Gerald Soosai Raj, Jignesh M. Patel, and Richard Halverson.

17th Koli Calling International Conference on Computing Education Research,
Koli, Finland.

SKILLS

General

- Planning, organizing, and leading classes/meetings
- Consise and clear communication (written and verbal)
- Presenting to small/large groups
- Google/Microsoft productivity applications

Programming Languages

- C
- C++11 and beyond (i.e., modern C++)
- Java
- Python 2.7

REFERENCES

Prof. Jignesh M. Patel,
Professor,
Department of Computer Sciences,
University of Wisconsin-Madison.
email: jignesh@cs.wisc.edu

Prof. Richard Halverson,
Professor,
Department of Educational Leadership and Policy Analysis,
University of Wisconsin-Madison.
email: halverson@wisc.edu

ADDITIONAL MATERIALS

Letters of recommendation and links to papers/code available on request.