ADALBERT GERALD SOOSAI RAJ

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RESEARCH INTERESTS	Computing Education Research, Bilingual CS Education, Live-Coding	
EDUCATION	Interdisciplinary program in Computer Sciences & Education, UW-Madison	Aug 2013 - present
	Ph.D., Computer Sciences and Education	
	Advisors: Prof. Jignesh M. Patel and Prof. Richard Halverson	
	Dissertation: Toward Making Computer Science Education Accessible and Relevant to Everyone	
	Department of Computer Sciences, UW-Madison	Aug 2013 - May 2015
	M.S., Computer Sciences	
	Department of Computer Science and Engineering, CEG, Chennai	Aug 2006 - May 2010
	B. Tech., Information Technology	

TEACHING EXPERIENCE

University of Wisconsin-Madison, USA

Instructor

CS 301 - Intro to Data Programming using Python	Sep 2018 - present
CS 354 - Intro to Computer Systems (@ Epic)	Jan 2018 - May 2018
CS 537 - Intro to Operating Systems (@ Epic)	Sep 2017 - Dec 2017
CS 537 - Intro 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

NOTE: Epic is a healthcare software company headquartered in Madison.

Teaching Assistant

CS 302 - Intro to Programming in Java	Jan 2014 - May 2014
CS 367 - Intro to Data Structures in Java	Jan 2014 - May 2014

CEG, Anna Univeristy, Chennai, Tamil Nadu, India

Visiting Faculty

Learning Modern C++	Jul 2018 - Aug 2018
Unix Internals	
Cracking the Coding Interview	

Guest Instructor

Intro to Data Structures in C	Feb 2016

SERVICE EXPERIENCE

Outreach/Workshops

Instructor

Python (Turtle graphics) @ Goodman Community Center	Nov 2018
Scratch programming @ Wisconsin Science Festival	Oct 2018
Mobile App Development Workshop @ UW-CS	Apr 2018
Mobile App Development Workshop @ Liz Waters	Feb 2018
Mobile App Development Workshop @ College Library	Nov 2016
Grand Parents University (GPU) @ UW-CS	Jul 2016
Scratch programming @ Wisconsin Science Festival	Oct 2015
Scratch programming @ Randall Elementary	Sep 2014 - Dec 2014
Scratch programming @ Crestwood Elementary	Jan 2014 - May 2014

PROFESSIONAL EXPERIENCE

Database Intern, Pivotal, Palo Alto	Jun 2015 - Aug 2015
Software Engineering Intern, Teradata-Aster, San Carlos	Jun 2014 - Aug 2014
Project Assistant, Kenny Lab, University of Wisconsin-Madison	Aug 2013 - Jan 2014
Software Developer, Sandvine, Bangalore	Apr 2012 - May 2013

Software Engineer, Cisco Systems, Bangalore	Sep 2010 - Apr 2012
Software Trainee Engineer, Starent Networks, Bangalore	Jun 2010 - Sep 2010

PUBLICATIONS

[1] Adalbert Gerald Soosai Raj, Jignesh M. Patel, Richard Halverson, and Erica Rosenfeld Halverson. Role of Live-coding in Teaching Introductory Programming. In proceedings of the 18th Koli Calling International Conference on Computing Education Research, Koli, Finland. November 2018.

[2] Adalbert Gerald Soosai Raj, Jignesh M. Patel, and Richard Halverson. Is More Active Always Better for Teaching Introductory Programming? In proceedings of the 6th International Conference on Learning and Teaching in Computing and Engineering (LaTiCE'18), Auckland University of Technology, New Zealand. April 2018.

[3] Adalbert Gerald Soosai Raj, Kasama Ketsuriyonk, Jignesh M. Patel, and Richard Halverson. Does Native Language Play a Role in Learning a Programming Language? In Proceedings of the 49th ACM Technical Symposium on Computer Science Education (SIGCSE'18), Baltimore, Maryland, USA. February 2018.

[4] Adalbert Gerald Soosai Raj, Varun Naik, Jignesh M. Patel, and Richard Halverson. How to teach modern C++ to someone who already knows programming?. In Proceedings of the 20th Australasian Computing Education Conference (ACE'18), University of Queensland, Brisbane, Australia. February 2018.

[5] Adalbert Gerald Soosai Raj, Kasama Ketsuriyonk, Jignesh M. Patel, and Richard Halverson. What Do Students Feel About Learning Programming Using Both English And Their Native Language? In proceedings of the 5th International Conference on Learning and Teaching in Computing and Engineering (LaTiCE'17), University of Hong Kong, Hong Kong. April 2017.

[6] Jing Fan, Adalbert Gerald Soosai Raj, and Jignesh M. Patel. The case against specialized graph analytics engines. In proceedings of the 7th Biennial Conference on Innovative Data Systems Research (CIDR'15), Asilomar, California, USA, January 2015.

CONFERENCE PRESENTATIONS

Role of Live-coding in Teaching Introductory Programming	Koli Calling 2018
Is More Active Always Better for Teaching Introductory Programming?	LaTiCE 2018
Does Native Language Play a Role in Learning a Programming Language?	SIGCSE 2018
How to teaching modern C++ to someone who already knows programming?	ACE 2018
What Do Students Feel About Learning Programming Using Both English And Their Native Language?	LaTiCE 2017

INVITED TALKS

Invited talk on "Modernizing C++ at UW-Madison" at Google-Madison.	Sep 2017
Invited talk on "Learning to Learn Programming" at WACM, UW-Madison.	Dec 2016
Seminar talk on "Diameter Base Protocol" at Sandvine, Bangalore.	Aug 2012
Invited talk on "Wireless Networking" at Cisco Systems, Bangalore.	Nov 2011

MENTORING EXPERIENCE

UW-Madison

Nikhil Kumar, CS Undergraduate Student	Sep 2018 - present
Houqi Li, CS Undergraduate Student	Sep 2018 - present
Virat Singh, CS Undergraduate Student	Sep 2018 - present
Varun Naik, CS Graduate Student	Jan 2018 - present

Cisco

Suganya, Software Trainee Engineer	Mar 2012 - May 2012
Maralvizhi Ramprasad, Software Engineer	Aug 2012 - Oct 2012

AWARDS AND HONORS

Best Graduate Student Instructor award @ UW-Madison CS department.	May 2018
CS department Thank You Award for Efforts in Increasing Diversity in CS.	May 2018
CS department Thank You Award for Encouraging Women to Major in CS.	May 2017
Cisco Achievement Program (CAP) award.	Jan 2012
Cisco Star performer award.	Apr 2011
Third rank in the department (at CEG) among 80 students.	May 2010

EXTRA AND
CO-CURRICULAR
ACTIVITIES

Participated in Chennai Triathlon and was ranked 6th among 30 participants under Sprint category.
Vice President of Students Association and Arts Society at CEG during 2009 - 2010.
School Pupil Leader of Santhome Higher Secondary School, Chennai during my 12th standard.
Asst. School Pupil Leader of Santhome Higher Secondary School, Chennai during my 10th standard.
Petty Officer Cadet of 1 TN Naval Unit National Cadet Corps (N.C.C.) during 2002 - 2003.