

Sahit R Mandala (Steve)

Current Address:
Adams Hall – 204 Ochner
1520 Tripp Circle
Madison, WI 53706

Contact Information:
Email: aspire@smandala.me
Cell Number: 508-969-1080
Website: www.smandala.me

Permanent Address:
79 Heritage Ave
Ashland, MA 01721

Objective: To obtain an internship/co-op position leveraging my technical and analytical skills to tackle evolving data science/engineering and security challenges within a fast-paced, impactful environment.

EDUCATION

University of Wisconsin, Madison – Madison, WI

- Bachelor of Science, Double Major: Mathematics and Computer Science
- Total GPA: 4.0/4.0
- Expected Graduation Date: Fall 2016

Worcester Polytechnic Institute - Worcester, MA

- Attended 2012 – 2013 as Senior at Massachusetts Academy of Math & Science (MAMS)
- Total GPA: 3.84/4.0

HONORS & AWARDS

- Dean's List Award, Worcester Polytechnic Institute – Worcester, MA
- Wisconsin Alumni Association Boston Area Chapter Scholarship, 2013-2014
- Dean's List Award, University of Wisconsin, Madison – Madison, WI
- Hackster IO 2015: Best Use of Edison Award – Boston, MA

Relevant Coursework:

Data Structures, Machine Organization and Programming, Algorithms, Foundations of Computer Science, Artificial Intelligence, Introduction to Cryptography, Introduction to Programming Languages and Compilers, Ordinary Differential Equations, Topics in Multi-Variable Calculus and Linear Algebra I & II, Principles of Real Analysis I & II, Modern Algebra, Linear Programming Methods, Introduction to Discrete Mathematics, Video Games and Learning, Theory and Methods for Social Network Analysis

WORK/RESEARCH EXPERIENCE

Research Intern Lawrence Berkeley National Laboratory

*Jan 2015 – Aug 2015
Berkeley, CA*

- Participated in the Department of Energy's Student Undergraduate Laboratory Internship (SULI) Program for Spring 2015
- Participated in Computing Sciences Summer Student Program for Summer 2015
- Designed and developed Python-based data management framework for climate data analysis jobs as part of CASCADE project, with emphasis on data latency, job integrity, and scalability on NERSC HPC systems; experimented on and evaluated existing climate analysis use cases, workflow frameworks, and workflow management solutions; created in-situ memory management system for scalable direct data transfers between workflow tasks

Software Development Intern Epic Systems

*May 2014 – Aug 2014
Verona, WI*

- Multiple Provider Scheduler UI Redesign: Overhauled web-based interface for scheduler client used by ambulatory clinicians; built a customizable schedule view that renders appointments in a modern "appointment slots" format, allowing users to compare schedules, review patient data, and edit information intuitively
- Coded as a full stack developer within ASP.NET development framework. Developed front-end web client using ASPX/HTML, JavaScript, and CSS and back-end server-side scripting using C# and Epic's proprietary database libraries. Utilized various in-house developer and debugging tools. Performed as key team member with other interns and colleagues to rebuild existing code; held regular meetings with supervisors, workgroups, and physicians to present demos and discuss design choices

Research Intern Worcester Polytechnic Institute (WPI)/Harvard SEAS Engineering Lab

*Jun 2011 – Sep 2011
Harvard/WPI*

- Worked with research team to engineer and assemble inexpensive piezoelectric and inertial sensor array for an automated, adaptable physical therapy devices for stroke victims suffering treatable paralysis within an arm
 - Built inexpensive sensory array using piezoelectric sensors and accelerometer in conjunction with Arduino microcontroller; conducted and statistically analyzed results from experiments over multiple setups (model arm and human); calibrated sensors using multiple regression analysis techniques; developed software for interface between micro-controller, computer, and MATLAB, allowing for feedback-based control loop between motors and sensors
 - Publications: (2011). Physics applied to post stroke victims. SPS National, www.spsnational.org
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COMPUTER SKILLS

Programming Languages	Python, Java, C, R, C++, C#, Javascript, Haskell, Scheme/Racket, Lua
OS/Platforms	Unix, Ubuntu, Windows, Mac OS X
Technologies/Frameworks	MongoDB, Node.js, Django, SQL, Leap Motion, Git, Unity, ASP.NET, HTML/CSS, Bootstrap, jQuery, Web design, Arduino, Intel Edison, Jlex, Java CUP, MIPS
Other Tools	Matlab/Octave, Mathematica, SolidWorks CAD, MS Office, Open Office

COLLEGIATE & COMMUNITY

Habitat for Humanity - Worcester & North Central MA Chapter, Volunteer	<i>June 2011 – Apr 2013</i>
<ul style="list-style-type: none">Worked on construction of 4 different homes in the Worcester and Greater Boston Area; as a regular volunteer, held supporting positions as mentor and leader for other volunteers; provided customer support at ReStore	
Math Club - UW Madison, Member	<i>Aug 2013 – Present</i>
Madison Anime Club - UW Madison, Vice President & Treasurer	<i>Aug 2013 – Present</i>
<ul style="list-style-type: none">Ran club meetings and represented the club at organization fairs and administrative meetings; completed administrative obligations to reserve classrooms, rent AV equipment, and listen to the member's suggestions and problems; maintained the budget, organized fundraising efforts, and allocated money for any events or investments that the club decided upon.	
UW Undergraduate Projects Lab, Member	<i>Aug 2013 -- Present</i>
<ul style="list-style-type: none">Participated in technical workshops and study groups; attended hackathons as a team and individually	