

# SAMARENDRA M HEDAOO

## ACADEMIC, RESEARCH & INDUSTRY EXPERIENCE

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### **School of EECS, Oregon State University**

Sept 2017 - present

*Instructor*

*Corvallis, Oregon & OSU Ecampus*

- Teaching Intro to Computer Science I, online, to a class of 120+ in Winter 2020, Spring 2020
- Teaching Intro to Computer Science II, online, to a class of 120+ in Winter 2020, Spring 2020
- Teaching Open Source Software Development, online, with an enrollment of 70+ in Spring 2018, 2019 and 2020.
- Teaching Software Engineering I, on campus, to a class of 80+ in Winter 2019 and Fall 2019
- Teaching Intro to Computer Science I, on campus, to a class of 120+ in Spring 2019
- Teaching Introduction to Databases, online, with an enrollment of 150+ each quarter from Sept 2017 through Dec 2018.

### **CHARISMA Lab, CoRIS, Oregon State University**

Oct 2017 - present

*Collaborator*

*Corvallis, Oregon & Remote*

- Running a pilot study to teach an online course with robots in Winter 2020
- Mentoring/Co-mentoring Summer REU interns for the Lab in 2018 & 2019
- Conducting a study on using Entertainment Methods in Social Robotics to aid effective design of conversational service robots
- Supporting research design for various experiments in the lab
- Supporting run of various Social Robotics experiments in the lab

### **Oregon State University Open Source Lab**

Nov 2016 - July 2017

*Sr. Systems Architect*

*Corvallis, Oregon*

- System Administration for the Open Source Lab's data centre at Corvallis
- Configuration management using Chef with exposure to Cfengine
- Participating in on-call shift every alternate week
- Providing customer support and site reliability to the hosted open source projects
- Managing OpenPOWER OpenStack cluster for FOSS projects using the POWER platform
- Mentoring, providing code reviews and architecting & developing software solutions with a team of 6 student system administrators
- Responsible for hiring and managing the team of student system administrators

### **Indian Institute of Technology Bombay**

June 2015 - Oct 2016

*Project Research Assistant for Prof P S V Nataraj*

*Mumbai, India*

- System Administration for the Linux-run GPU Cluster of the GPU Centre of Excellence(GCOE), IIT Bombay
- Providing support for scientific computing users all over India for moving towards GPU-based computing
- Liaising with IBM for the setup of OpenPOWER Research Facility(OPRF) at the IIT Bombay
- Collaborating with a team for conducting 10 workshops on *Parallel Computing using GPUs* all over India
- Writing sysadmin and user documentation for GCOE & OPRF

<b>Teaching “Basics of OS” &amp; “Programming with Python”</b> <i>Pune, India</i>	Nov 2015 - April 2016 <i>Weekends</i>
<ul style="list-style-type: none"> <li>· Motivate and bring in students towards using, understanding and contributing to Free/Open Source Software.</li> <li>· Voluntary, part-time and non-paying initiative undertaken as part of an Industry-oriented improvement program for the college’s students with 2 friends who run a startup in Pune.</li> </ul>	
<b>Clevershell Software Solutions</b> <i>Founder CTO</i>	Feb 2014 - May 2015 <i>Pune, India</i>
<ul style="list-style-type: none"> <li>· Collaborating with Hewe s.p.r.l., Burundi (Africa) for developing various SMS-based apps</li> <li>· Designing the architecture of a SMS-based marketplace for farmers in Burundi</li> <li>· Setting up and maintaining Linux servers and Kannel, httpd, celeryd</li> <li>· Creating chowk<sup>1</sup>, playsms_chowk<sup>2</sup> and envaya_nexmo<sup>3</sup></li> </ul>	
<b>Pramati Technologies Pvt Limited</b> <i>DevOps Engineer</i>	Jan 2013 - Jan 2014 <i>Hyderabad, India</i>
<ul style="list-style-type: none"> <li>· Managing infrastructure configuration using Puppet</li> <li>· Extending Puppet with native types, providers and custom functions.</li> <li>· Creating automation solutions using bash and Python</li> <li>· Monitoring the IT infrastructure using Cacti and Nagios</li> <li>· Bundling virtual environments for use in product and configuration management testing using Vagrant</li> <li>· Writing Puppet Koans <sup>4</sup></li> </ul>	
<b>Intelcap Software Technologies Pvt Limited</b> <i>DevOps Engineer</i>	Jan 2012 - Dec 2012 <i>Pune, India</i>
<b>Bharat Sanchar Nigam Limited</b> <i>Freelancer</i>	Dec 2011 <i>Pune, India</i>
<b>Symbiosis Institute of Computer Studies &amp; Research</b> <i>Linux and Moodle System Administrator</i>	Oct 2009 - May 2010 <i>Pune, India</i>
<b>Bhaskaracharya Pratishthana</b> <i>System and Network Administrator</i>	Feb 2010 - March 2010 <i>Pune, India</i>
<b>PSystems IT Services Private Limited</b> <i>System Administrator</i>	Jan 2010 - April 2010 <i>Pune, India</i>
<b>Sparken IT Solution Private Limited, Pune</b> <i>System and Network Administrator</i>	May 2009 - March 2010 <i>Pune, India</i>
<b>Software Development &amp; Research Labs at SICSR, Pune</b> <i>Developer &amp; Sysadmin</i>	June 2010 - Nov 2011 <i>Pune, India</i>
<b>Software Development &amp; Research Labs at SICSR, Pune</b> <i>Member</i>	Oct 2006 - Dec 2008 <i>Pune, India</i>

## PUBLICATIONS

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- “Distinguishing Personality from Robot Motion”  
*Agnihotri A., Chan A., Hedao S., Knight H.* Human Robot Interaction, 2020
- “A Robot Barista Comments on its Clients: Social Attitudes Toward Robot Data Use”  
*Hedao S., Williams A., Wadgaonkar C., Knight H.* Human Robot Interaction, 2019

## TALKS

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<b>“Back to the Basics (of programming) with a Robot<sup>5</sup>”</b> <i>School of EECS, Oregon State University</i>	May 20, 2020
<b>“Designing for Portfolio Project webinar<sup>6</sup>”</b> <i>School of EECS, Oregon State University</i>	May 19, 2020
<b>“Introduction to git and GitHub webinar slides<sup>7</sup>”</b> <i>School of EECS, Oregon State University</i>	Jan 16, 2020
<b>“Managing machines with Puppet and SaltStack<sup>8</sup>”</b> <i>BlazeClan, Pune, India</i>	Sept 12, 2015
<b>“udpcast – setting up a lab en-masse<sup>9</sup>”</b> <i>GNUunify, Pune, India</i>	Feb 11, 2012
<b>A demo on Moodle<sup>10</sup></b> <i>Bhaskaracharya Pratishthana, Pune, India</i>	Jan 18, 2011
<b>Moodle – an open source learning platform</b> <i>GNUunify, Pune, India</i>	Feb 2011 & Feb 2010

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## WORKSHOPS

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<b>“Creating HPC facilities using clusters and their research avenues”</b> <i>Allana Institute of Management Sciences, Pune, India</i>	July 31, 2010
<b>A Faculty Development Programme on Moodle</b> <i>Jan 24, 2010</i>	SICSR/Pune University, Pune, India
<b>Basics of Moodle for Teachers</b> <i>April 2009</i>	SICSR, Pune, India
<b>“Tweaking Ubuntu”</b> <i>GNUunify</i>	Feb 2009

## ACADEMIC PROJECTS

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<b>Shadow/Giraffe – A network distributed screen saver</b>	Masters, 2012
<b>APPy – A Person in Python</b>	Bachelors, 2009
<b>hamraDownloader</b>	Bachelors, 2009
<b>Volunteer Information Management System</b>	Bachelors, 2009

## EDUCATION

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<b>Symbiosis International University</b>	
Master of Science (Computer Applications)	April 2012
Bachelor of Computer Applications	Oct 2009
<b>US Equivalency Summary by World Education Services, USA</b> <i>Bachelor’s and master’s degree from a regionally accredited institution</i>	Reference# 3046528

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<sup>1</sup>Details of full-time & part-time work experience before 2013 available upon request

## Links

<sup>1</sup>chowk – a traffic router for Kannel and RapidPro - <https://git.io/veiJ2>

<sup>2</sup>playsms.chowk – a traffic router for multiple Kannel servers and PlaySMS - <https://git.io/vf9tQ>

<sup>3</sup>envaya\_nexmo – a backend for the RapidSMS framework to send SMS using Nexmo and receive using the EnvayaSMS Android app - <https://git.io/veiUU>

<sup>4</sup>Puppet Koans - <https://git.io/veiTK>

<sup>5</sup>[Recording](#)

<sup>6</sup>[Recording](#)

<sup>7</sup>[Slides](#)

<sup>8</sup><https://git.io/vVE87>

<sup>9</sup>[https://raw.githubusercontent.com/knightsamar/talks/master/udpcast\\_at\\_gnuni\\_fy/udpcast.txt](https://raw.githubusercontent.com/knightsamar/talks/master/udpcast_at_gnuni_fy/udpcast.txt)

<sup>10</sup><http://goo.gl/aMHAJb>