

# Samihan Nandedkar

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## EDUCATION

<b>Chicago, IL</b>	<b>University of Illinois at Chicago</b>	<b>August 2021- Present</b>
<ul style="list-style-type: none"><li><u>Program</u>: Master of Science in Computer Science</li><li><u>Essential Coursework</u>: Computer Algorithm, Engineering Distributed Objects in Cloud Computing</li></ul>		
<b>Jaipur, RJ, India</b>	<b>Malaviya National Institute of Technology</b>	<b>August 2016 – May 2020</b>
<ul style="list-style-type: none"><li><u>Program</u>: Bachelor of Technology in Electronics and Communication Engineering (Graduated with CGPA of 7.89)</li><li><u>Essential Coursework</u>: Data Structures and Algorithm, Operating Systems, Computer Architecture, Neural Networks</li><li><u>POR</u>: Organized and managed annual technical event with expected footfall of over 10k students</li></ul>		

## EMPLOYMENT

<b>Software Engineer</b> (Location: Hyderabad, India)	<b>Gap Inc.</b> (Compute Unix – Infrastructure Department).	<b>June 2020-July 2021</b>
<ul style="list-style-type: none"><li>Designed a full-stack web app in <b>React</b> and <b>Express</b> to facilitate the product teams to monitor and manage their infrastructure footprint and engage with compute teams as required.<ul style="list-style-type: none"><li>Analyzed &amp; showcased the current infrastructure reach across multiple cloud vendors (Azure &amp; OCI) and datacenters.</li><li>Implemented end-to-end automation to patch Linux server to latest approved version at designated time with minimum human intervention <b>reducing weekly manual hours by over 20hrs/week.</b></li></ul></li><li>Automated operations testing on over 10,000+ cloud Linux instances to make them production-ready by leveraging <b>Ansible</b>.</li><li>Provided Level 3 support for Linux (OEL, Redhat 6/7, IBM Aix) servers to plan and implement critical infrastructure change tickets which impacted production sensitive environments <b>without any downtime.</b></li></ul>		
<b>Summer Intern</b> (Location: Hyderabad, India)	<b>Gap Inc.</b> (Compute Unix – Infrastructure Department).	<b>May 2019-July 2019</b>
<ul style="list-style-type: none"><li>Developed and deployed a web application in <b>MERN stack</b> to enable team members to interact with <b>AIX HMC</b> using Rest APIs.</li><li>Setup secure authentication with web app simplifying the task of monitoring the status of HMC cluster and perform firmware upgrades.</li><li>Introduced a layer of security over HMC dashboard as all the tasks deployed from web app would be validated before executing.</li></ul>		

## SKILLS

<u>Languages &amp; Databases:</u>	<b>Python, JavaScript, Scala,</b> HTML, CSS, Shell Scripting, C++   MySQL, MongoDB
<u>Frameworks &amp; Cloud:</u>	<b>React, Nodejs,</b> CloudSim Plus, Azure Compute (VM, VMSS, AD), AWS (EC2, S3, EMR), OCI Compute, Bootstrap, Material UI, Apache Hadoop, sbt, Chef, Ansible,
<u>Operating System:</u>	<b>Linux (Redhat, OEL, IBM Aix),</b> Windows, macOS
<u>Certification:</u>	<b>Azure Fundamentals Certified. (AZ-900)</b>

## SOFTWARE PROJECTS

<b>Personal Website:</b> <a href="https://www.samihann.com/">https://www.samihann.com/</a> (For additional information and projects)	HTML/CSS/JavaScript
<b>Forum: Social Media Web Application</b>	React/Express/MongoDb/Nodejs (MERN Stack)
<ul style="list-style-type: none"><li>Key features: users can sign-up, share post, follow other users, and interact with other users and set a customizable homepage.</li><li>Enhanced security is maintained for users' information by hashing the sensitive information before being stored and transmitted across endpoints.</li><li>Improved UI in React by utilizing standardized frameworks such as Material UI for creating a user-friendly interface.</li></ul>	
<b>Cloud Model Simulation: CloudSim Plus</b>	Scala/sbt/Java/CloudsimPlus
<ul style="list-style-type: none"><li>Designed and implemented Cloud Environment using the <b>CloudSim Plus</b> framework to study the process execution pattern for different models and characteristics.</li><li>Simulated IAAS, PAAS, and SAAS models using different policies and constraints for VM allocation, scheduling, and execution.</li></ul>	
<b>Hadoop MapReduce on Log Data</b>	Scala/Hadoop/AWS EMR/Hortonworks
<ul style="list-style-type: none"><li>Leveraged <b>Apache Hadoop &amp; Scala</b> to parse &amp; analyze a million log messages using MapReduce framework on Hortonworks Sandbox and deployed on AWS EMR cluster.</li><li>Processed data to identify a Regex pattern scattered across the log messages and segregated the same according to message type.</li></ul>	
<b>Generative Adversarial Network (GAN) Model Study</b>	Python/Keras/Tensorflow
<ul style="list-style-type: none"><li>Studied the accuracy of major <b>Generative Adversarial Models</b> for image generation.</li><li>Analyzed the plots of output accuracy across the different models to determine the most efficient.</li><li>Presented the study as final year dissertation in undergraduate college.</li></ul>	
<b>Cloud Management Dashboard &amp; Automation Scripts</b>	React/Express/Chef//MySQL/Python/Azure APIs
<ul style="list-style-type: none"><li>Developed a front-end dashboard facilitating the user to perform the required jobs in the cloud, such as provisioning a new cloud resource, starting, and stopping the resource, reshaping the resource, etc.</li><li>Utilized <b>Chef</b> to configure the created instance according to parameters provided by user.</li><li>Maintain the authentication and authorization for the compute instances by custom <b>Recipes</b> pushed through Chef.</li></ul>	