

# 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></ul>		

## EMPLOYMENT

<b>Software Engineer</b> (Location: Hyderabad, India)	<b>Gap Inc.</b>	<b>June 2020-July 2021</b>
<ul style="list-style-type: none"><li>Performed the responsibilities of a <b>Linux System Administrator</b> and <b>Automation Developer</b> in Compute Unix team of the Infrastructure department during my tenure in the company.</li><li>Formulated and built a full-stack web app in <b>React</b> and <b>Express</b> to centralize all the automation taking place across the team.</li><li>Successfully deployed the web application to Azure cloud instance with high availability.</li><li>Provided Level 3 support for <b>Linux (OEL, Redhat 6/7, IBM Aix)</b> servers and user-generated problems tickets.</li><li>Planned and Implemented critical infrastructure change tickets.</li></ul>		
<b>Summer Intern</b> (Location: Hyderabad, India)	<b>Gap Inc.</b>	<b>May 2019-July 2019</b>
<ul style="list-style-type: none"><li>Worked for two months as an intern in Compute Team of Infrastructure Department of Gap Inc.</li><li>Successfully developed and deployed a full-stack application in <b>React</b> to facilitate team members to interact with <b>AIX HMC</b> using APIs and secure authentication.</li><li>Was offered a full-time position in the team for achieving the target deployment in record time.</li></ul>		

## SKILLS

Languages: **Python, JavaScript, Scala**, HTML, CSS, Shell Scripting

Frameworks & Cloud: **React, Nodejs**, CloudSim Plus, Azure, OCI, Bootstrap, Material UI, Active Directory

Operating System: **Linux (Redhat, OEL, IBM Aix)**, Windows, macOS

Databases: MySQL, MongoDB

Certification: **Azure Fundamentals Certified. (AZ-900)**

## SOFTWARE PROJECTS

<b>Personal Website</b> : <a href="https://www.samihann.com/">https://www.samihann.com/</a> (For additional information and projects)	<i>HTML/CSS/JavaScript</i>
<b>Forum: Social Media Web Application</b> <i>React/Express/MongoDb/Nodejs</i> <ul style="list-style-type: none"><li>Developed a web application using the <b>MERN</b> software stack.</li><li>Few key features: user can sign-up, share a post, follow other users, and interact with other users, 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 created in React by utilizing standardized framework such as Material UI for creating a user-friendly interface.</li></ul>	
<b>Cloud Model Simulation: CloudSim Plus</b> <ul style="list-style-type: none"><li>Designed and simulated a Cloud Environment using the <b>CloudSim Plus</b> framework to study the process execution pattern in the cloud for different models and characteristics.</li><li>Generated <b>IAAS, PAAS</b>, and <b>SAAS</b> architecture <b>models</b> using different policies and constraints for VM allocation, scheduling, and execution.</li></ul>	<i>Scala/Java/CloudsimPlus</i>
<b>Generative Adversarial Network (GAN) Model Study</b> <ul style="list-style-type: none"><li>Evaluated the accuracy of major <b>Generative Adversarial Models</b> for the image generation for a dataset.</li><li>Experiments were performed using a <b>digit and face dataset</b>, with various visualizations illustrating the results.</li><li>Concluded the final analysis after performing extensive research by comparing the models over a range of parameters.</li><li>Submitted the study as a final year dissertation for my undergraduate degree.</li></ul>	<i>Python/Keras/Tensorflow</i>
<b>Cloud Management Dashboard &amp; Automation Scripts</b> <ul style="list-style-type: none"><li>Developed a front-end dashboard in <b>React</b> for facilitating the user to perform the required task in the cloud, such as provisioning a new cloud resource, starting, and stopping the resource, reshaping the resource, etc.</li><li>The backend Express framework interacted with the Cloud provider (Azure) through <b>Python scripts using the REST APIs</b>.</li><li>Additional features and security were provided to the users such as scheduling creation and deletion of a cloud resource, authorization check before submitting any task.</li><li>Additional policies and restrictions over the user were added through utilizing AD provided by Azure.</li></ul>	<i>React/Express/MySQL/Python/Azure APIs</i>