

# Samihan Nandedkar

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## EDUCATION

<b>University of Illinois at Chicago</b>	<b>Chicago, IL</b>	<b>August 2021 - Present</b>
<ul style="list-style-type: none"><li>Program: Master of Science in Computer Science (CGPA: 3.6)</li><li>Essential Coursework: Computer Algorithm, Engineering Distributed Objects in Cloud Computing, Obj-Oriented Langs Env</li></ul>		
<b>Malaviya National Institute of Technology</b>	<b>Jaipur, India</b>	<b>August 2016 - May 2020</b>
<ul style="list-style-type: none"><li>Program: Bachelor of Technology in Electronics and Communication Engineering</li></ul>		

## PROFESSIONAL EXPERIENCE

<b>Software Developer (Graduate Employee)</b> Feb 2022 - Present	<b>Technology Solutions (Uni. Of Illinois) / Software Development &amp; Delivery Team</b> Location: Chicago, IL
<ul style="list-style-type: none"><li>Developed core backend functionality for Employee Leave tracking system in <b>Node.js</b> with over <b>3000+ active daily users</b>.</li><li>Designed database architecture to enable data fetching from multiple data source banks in multi-tenant environment.</li><li>Implemented over <b>150+ unit test cases in Jest &amp; Supertest</b> to assert the core functionalities of exposed API endpoints &amp; backend system.</li><li>Optimized report generation by implementing <b>parallel processing using JavaScript native Promises</b> to assist stakeholders in analyzing leave summary data of their employees which resulted in <b>40% improvement in productivity</b>.</li><li>Reinforced <b>code quality using Husky &amp; Github Actions</b> by setting up test cases &amp; lint checks to validate that each code push aligns with projects code standardization.</li></ul>	
<b>Software Engineer</b> June 2020 - July 2021	<b>Gap Inc. / Compute Unix - Infrastructure Department</b> Location: Hyderabad, India
<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 current infrastructure reach across multiple cloud vendors (Azure &amp; OCI) and data centers.</li><li>Implemented end-to-end automation to patch linux server to latest approved version at designated time with minimum human intervention, <b>reducing 20hrs manual hours per week</b>.</li></ul></li><li>Automated operations testing on over <b>10,000+ Linux Cloud instances</b> to make them production-ready by leveraging Ansible.</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> May 2019 - July 2019	<b>Gap Inc. / Compute Unix - Infrastructure Department</b> Location: Hyderabad, India
<ul style="list-style-type: none"><li>Developed a web application in <b>MERN</b> stack to enable team members to interact with AIX HMC using Rest APIs.</li><li>Introduced a layer of security over HMC dashboard to limit actions to users according to their authorization.</li><li>Built a deployment pipeline in Jenkins to facilitate continuous deployment of the project.</li></ul>	

## SKILLS

<b>Languages:</b> Javascript, Python, Scala	<b>Databases:</b> MySQL, MongoDB
<b>Web Development:</b> Javascript, Node.js, React, Vue.js, HTML/CSS, Jest & Supertest (Testing), Husky, Github Actions	<b>Operating System:</b> Linux (Redhat, OEL, IBM Aix), Windows
<b>Cloud:</b> Azure & AWS (Compute, Storage, CICD, Devops tools)	<b>Frameworks:</b> Kafka, Spark, Hadoop, MapReduce
	<b>Devops:</b> Docker, Kubernetes, Jenkins, Git

## CERTIFICATIONS:

**Azure:** [Azure Fundamentals Certified](#)  
**AWS:** [AWS Certified Developer – Associate](#), [AWS Certified Cloud Practitioner \(CLF\)](#)

## SOFTWARE PROJECTS:

<b>Portfolio Website:</b> <a href="https://www.samihann.com/">https://www.samihann.com/</a> (For additional information and projects)	HTML/CSS/JavaScript
<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. Processed data to identify a Regex pattern scattered across the log messages and segregated the same according to the message type.</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 users to perform required jobs in cloud, such as provisioning a new cloud resource, starting, and stopping the resource, reshaping the resource.</li><li>Utilized <b>Chef</b> to configure the created instance according to parameters provided by the user.</li><li>Maintain authentication and authorization for the compute instances by custom Recipes pushed through Chef.</li></ul>	