

Samihan Nandedkar

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EDUCATION

Chicago, IL	University of Illinois at Chicago	August 2021- Present
<ul style="list-style-type: none"><u>Program</u>: Master of Science in Computer Science<u>Key Coursework</u>: Computer Algorithm, Engineering Distributed Objects in Cloud Computing		
Jaipur, RJ, India	Malaviya National Institute of Technology	August 2016 – May 2020
<ul style="list-style-type: none"><u>Program</u>: Bachelor of Technology in Electronics and Communication Engineering (Graduated with CGPA of 7.89)<u>Key Coursework</u>: Data Structure and Algorithm, Operating Systems, Computer Architecture, Neural Networks		

EMPLOYMENT

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

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

Personal Website: <https://www.samihann.com/> (For additional information and projects) *HTML/CSS/JavaScript*

Forum: Social Media Web Application

React/Express/MongoDb/Nodejs

- Developed a web application using **MERN** software stack.
- Few key features: user can sign-up, share post, follow other users, and interact with other users, set a customizable homepage.
- Enhanced security is maintained for user's information by hashing the sensitive information before being stored and transmitted across end points.
- Improved UI created in React by utilizing standardized framework such as Material UI for creating user friendly interface.

Cloud Model Simulation: CloudSim Plus

Scala/Java/CloudsimPlus

- Designed and simulated a Cloud Environment using the **CloudSim Plus** framework to study the process execution pattern in cloud for different model and characteristics.
- Generated **IAAS, PAAS** and **SAAS** architecture **models** using different policies and constraints for VM allocation, scheduling, and execution.

Generative Adversarial Network (GAN) Model Study

Python/Keras/Tensorflow

- Evaluated the accuracy of major **Generative Adversarial Models** for the image generation for a dataset.
- Experiments were performed using a **digit and face dataset**, with various visualizations illustrating the results.
- Concluded the final analysis after performing extensive research by comparing the models over range of parameters.
- Submitted the study as a final year dissertation for my undergraduate degree.

Cloud Management Dashboard & Automation Scripts

React/Express/MySQL/Python/Azure

APIs

- Developed a front-end dashboard in **React** for facilitating the user to perform required task in cloud such as provisioning a new cloud resource, starting, and stopping the resource, reshaping the resource, etc.
- The backend Express framework interacted with Cloud provider (Azure) through **Python scripts using the REST APIs**.

- Additional feature and security were provided to the users such as scheduling creation and deletion of a cloud resource, authorization check before submitting any task.
- Additional policies and restrictions over the user were added through utilizing AD provided by Azure.