

Madhuri Palanivelu

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WORK EXPERIENCE

Goldman Sachs, Salt Lake City, UT

Jul 2021 - present

Software Engineering Analyst, Storage

- Developed a web application for Block Storage from scratch, using **Angular** and **Node.js**
 - Engineered the web-app to handle all block storage provision, increase and decommission requests made for clients across the entire firm
 - Developed 20+ components, templates, interfaces, and services that consume internal APIs, from scratch
 - Built 10+ Reactive forms with validation and dynamic fields, that enable storage tasks
 - Wrote 50+ Karma/Jasmine unit tests for all the services and routes created for the application
 - Scripted a CI/CD pipeline to continuously build, test, and deploy the app in Dev, QA, and Prod hosts
 - Improved the web-app iteratively by discussing design decisions and wireframes with stakeholders
 - Increased efficiency of the team by saving an hour of collective developer time per day
- Initiated the use of **Ansible** and **Python** to automate the Block Array Onboarding process within the team
 - Developed an automated plugin that creates and maintains a dynamic inventory of servers
 - Deployed the automation framework on a Kubernetes cluster for the entire Storage team
 - Built Ansible modules to automate checking and setting configurations on vendor block arrays
 - Eliminated manual developer effort and sped up the array onboarding process by a factor of 5
- Created a test suite for performance regression testing of GS Object Storage, using the **COSBench** benchmarking tool
 - Created 20+ workloads to identify performance regressions before and after software and hardware code upgrades
 - Increased the object storage service CPU and Network utilization by 20% through optimal workload parameters

Infosys Ltd, Mysore, India

Dec 2018 - Apr 2019

Systems Engineer Intern

- Developed an Employee portal backend for communicating with the security personnel of the Infosys campus using **Spring**, **Hibernate**, and **Java**

EDUCATION

Northeastern University

May 2021

Master of Science in Computer Science, GPA 3.9 / 4.0

Amrita Vishwa Vidyapeetham

Jun 2019

Bachelor of Technology in Computer Science and Engineering

TECHNICAL SKILLS

Programming Languages:	Python, Java, JavaScript
Web Technologies:	Angular, React, Node.js, HTML, CSS, Flask, Spring
Software/Tools:	Ansible, Git, Kubernetes, Docker, Figma
Database:	MongoDB, Elasticsearch, MySQL, Firebase

PROJECTS

Chore Tracker

Mar 2021

- Engineered an interactive high-fidelity prototype that can gamify the process of completing chores and reduce tension between cohabitants
- Developed the application with **Node.js**, **React**, and **Redux**
- Performed requirement analysis, user interviews, prototyping, and reiterated interface design with a team of three

MasterChef Recipe Selector

Dec 2020

- Led a team of three to build a Heroku-based web-app that recommends recipes and allows users to search for recipes
- Developed the application using **MongoDB**, **Express.js**, **React**, **Node.js** (MERN), and the Food.com dataset
- Created the recommendation system based on user's selections of their available ingredients, cuisine, and type of meal

ACHIEVEMENTS

- CarbonHack22 - Developed a solution to minimize the carbon footprint of servers by distributing the execution of tasks based on clean and dirty energy cycles