

# MADHURI PALANIVELU

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## Experience

### Goldman Sachs

Jul 2021 – present

*Software Engineer, Storage*

*Salt Lake City, UT*

- Developed a web application for Block Storage from scratch, using **Angular** and **Node.js**
  - \* Engineered the app to handle all storage provision, increase and decommission requests made across the entire firm
  - \* Developed 20+ components, templates, interfaces, and services that consume internal GS APIs
  - \* Built 10+ reactive forms with validation, dynamic fields, and grids 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 1 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
  - \* Uploaded results into **Elasticsearch** and created a **Kibana** dashboard to visualize changes in the configurations
  - \* Eliminated manual developer effort and sped up the array onboarding process by 2 hours
- 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

Dec 2018 – Apr 2019

*Systems Engineer Intern*

*Mysore, India*

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

## Technical Skills

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

## Education

### Northeastern University

June 2021

*Master of Science in Computer Science, GPA: 3.9*

*San Jose, CA*

### Amrita Vishwa Vidyapeetham

May 2019

*Bachelor of Technology in Computer Science*

*Coimbatore, India*

## Projects

### ChoreChaser - [Code](#) | *Node.js, JavaScript, React, Redux, HTML, CSS*

2021

- Engineered a high-fidelity interactive prototype that gamifies the process of completing chores amongst 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 - [Website](#) | [Code](#) | *Node.js, JavaScript, React, MongoDB, HTML, CSS*

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