

MADHURI PALANIVELU

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Experience

Goldman Sachs

Jul 2021 – present

Software Engineer

Salt Lake City, UT

- Developed a web application for Block Storage from scratch, using **Angular**, **TypeScript**, and **Node.js**
 - * Engineered the app to handle all storage allocation, increase, and removal 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
 - * 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
 - * Tested the performance of the APIs under high stress and load using **JMeter**
- Developed **RESTful APIs** in **Java** and **JAX-RS** to relay information about network switches and storage arrays
 - * Implemented 10+ CRUD endpoints by communicating with a **Sybase** database
 - * Wrote 50+ unit tests using **JUnit** and **Fitness** to cover all API use cases
 - * Reduced manual effort of the operations frontline team by 3 hours per lookup
- 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
 - * 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 2 hours
- Responsibilities as an individual contributor:
 - * Performed 3-5 code reviews per Sprint
 - * Participated in Sprint planning, story grooming and technical feasibility POCs
 - * Acted as Scrum Master and Release Lead in every alternating Sprint

Infosys

Dec 2018 – Apr 2019

Software Engineer Intern

- 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: React, Angular, Node.js, HTML, CSS, RESTful APIs, Microservices, Spring
Software/Tools: Figma, Ansible, Git, Kubernetes, Docker, Karma, Jasmine, Junit, AJAX
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](#) | *React, Node.js, JavaScript, Redux, HTML, CSS*

2021

- Engineered a high-fidelity interactive prototype that gamifies the process of completing chores amongst cohabitants
- Developed the web application with Node.js, React, and Redux
- Performed requirement analysis, user interviews, prototyping, and reiterated interface design

Masterchef Recipe Selector - [Website](#) | [Code](#) | *React, Node.js, JavaScript, 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

- **Google UX Design Certificate** - Certified for UX Design by building UX-centered projects using design tools while conducting user research and interviews
- **CarbonHack22** - Developed a solution to minimize the carbon footprint of servers by distributing the execution of tasks based on clean and dirty energy cycles