Madhuri Palanivelu

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Experience

Goldman Sachs   **Jul 2021 − present**

Software Engineer II

- 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 Fitnesse to cover all API use cases
  - Reduced manual effort of the operations frontline team by 3 hours per lookup

Software Engineer I

- Developed a web application for Block Storage from scratch, using **Angular, JavaScript**, and **Node.js**
  - Engineered the app to handle all storage allocation, increase, and removal requests made across the entire firm
  - Developed 20+ UI components, templates, and services that consume internal GS APIs
  - Built 10+ reactive forms with validation, dynamic fields, and grids
  - 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**

- 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 cross-checking of configurations on vendor block arrays
  - Eliminated manual developer effort and sped up the array onboarding process by an hour

- 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

Technical Skills

Languages:	JavaScript, Python, Java
Web Technologies:	React, Angular, Node.js, HTML, CSS, RESTful APIs, Microservices, Spring
Software/Tools:	VS Code, 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