Madhava Prashath

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Skills

Programming:	Data Structures and Algorithms, C/C++(STL), Java, Python, JavaScript
Web Dev:	SpringBoot, NodeJs, MongoDB, MySQL, REST API
Familiar:	ReactJS, Redis, Flask-Python, HTML/CSS
Others:	Git Version Control, AWS Services - S3, EC2, Microservices Architecture

Education

SSN College of Engineering *Chennai, India*
B.E. in Computer Science *June 2019 - May 2023*
- Member of SSN Coding Club
- **Courses:** Data Structures and Algorithms, Object Oriented Programming
- CGPA - 9.2

Maharishi Vidhya Mandir *Chennai, India*
Senior Secondary School (CBSE) *Apr 2017 - May 2019*
- Passed with Distinction - 95.2 %

Work Experience

Rocketlane *Chennai, India*
Backend Developer Intern *May 2022 - Jul 2022*
- Worked on a highly robust, engineered product as a backend developer in Spring Boot environment.
- Implemented size restriction feature for email attachments, enhancing communication efficiency with customers.
- Developed API's to retrieve comprehensive project metadata from multiple complex database tables using jOOQ.

Projects

Custom Image Generation Tool *Code Live*

- MERN application that helps to create custom images based on user given propmt. All images can be saved in the gallery. Uses Open AI's DALL-E API. Used **Express** and **NodeJS** to handle backend of the application.
- Used **Cloudinary** service to store and retrieve image generated for faster access.
- **MongoDB** database stores the image related info including imageURL generated from Cloudinary platform.
- Implemented the frontend using ReactJS (basic) and has features like search images by username or image name in the gallery.

StoryWise - A story sharing platform *Code Live*

- Easy to use application that allows users to create, manage, and view stories/posts. All public stories are available to all other users logged into the application.
- Implemented Google Authentication **OAuth 2.0** using **Passport.js** to enable secure login and user authorization / authentication. Configured express-session to store session data in MongoDB.
- Utilized Handlebars templating engine for the frontend to dynamically render and display story-related content.
- Developed using NodeJS and Express for the server side functionalities.

Microservices Appliction *Code*

- Developed a fully backend **Spring Boot** application to showcase **microservices architecture**.
- Implemented multiple services allowing users to order a list of items from an inventory system. Utilized a **discovery server** - Netflix Eureka, for efficient inter-service communication and dynamic service registration.
- Implemented an API gateway using Spring Cloud Gateway to handle routing, and load balancing.
- Integrated Keycloak for secure authentication and authorization in the microservices ecosystem.

Achievements

- Ranked top 3 among 2000+ students in **Geeks for geeks** portal.
- Regional Finalist among 1500+ teams of Umagine Chennai-Tech Showcase 2023.