

ADITYA MADHUSUDHAN

Tallahassee | +1 (850)-980-1576 | adityam945@gmail.com | [GitHub](#) | [Portfolio](#)

Master's student procuring skills in disciplines of data mining and data manipulation with adequate experience in application development, currently exploring internships opportunities.

EDUCATION

Florida State University

Masters Computer Science

ACS College of Engineering

Masters Computer Science

Tallahassee, FL, USA

August 2022 – present

Bangalore, KA, India

July 2017 – July 2021

TECHNICAL SKILLS

Programming: HTML, CSS, JavaScript, Java, Python, C, Kotlin.

Application Framework: ReactJS, React-Native, Java for Android development, AngularJS, NextJS, NodeJS, Express, Fastify, StrapiJS, JSF.

Databases: MySQL, MongoDB, DynamoDB, S3 Bucket.

Cloud Services: MongoDB, S3 Bucket, DynamoDB, Heroku, AWS Elastic Beanstalk.

EXPERIENCE AND PROJECTS

Grassroots-GRSSL

August 2021–April 2022

- Developed customer-relationship models using various **JavaScript frameworks**.
- Programmed **action classes in node environment** to provide user exclusive functions to interact with data available in the database.
- Optimized **data analysis algorithms to compute data existing and real-time data** to provide a database snapshot to the users.
- Designed **aesthetic and response UI's** using ReactJS and NextJS.
- Developed **algorithms to calculate customer retention rate and customer satisfaction index** for a multi-chain restaurant.
- Developed **user exclusive tokens** to facilitate personalized user functions.

NH Robotics

September 2021 – July 2022

- Worked on **ROS and ROS bridge package to facilitate communication** between a robot and user interface.
- Designed and developed multiple **API services that published and subscribed data** to control the robot from providing parameters through the user interface.
- Programmed a **user role authentication** layer on the controller side to protect sensitive data.

Oxyease

February 2021 – June 2021

- Designed and developed a **full-stack MERN application** that served as a platform for buying, selling, and renting oxygen machines.
- Implemented various algorithms related to real time inventory and product subscription status.
- **Interacted directly with end users** to enhance user interaction and navigation on the platform.

Marek Adventures

October 2020 – December 2020

- Designed aesthetic and responsive **website using WordPress** for an African touring firm.
- Established a server to deploy the website and the database alongside implemented a mailing service.

Esilicon TechnoDesign Private Limited

July 2020 – September 2020

- Developed multiple **data subscription API's that used to pre-process data** before storing in the database.
- Learnt various techniques to solve challenges also how to identify limitations in a solution.

Combined Visual Cryptography and Steganography(research)

December 2020 – June 2021

- A **cryptographic algorithm** that embeds plain text into an image using **steganographic** and further uses **visual cryptography** technique to shuffle the pixels in the image.

Medicinal Plants Classification (research)

March 2021 – July 2020

- A **machine learning model trained** to recognized medicinal plants leaves also provides a short description of the prediction.

Performance Based Adaptive Questioning

March 2020 – September 2020

- Designed and developed a **full-stack application** with a underlying logic that predicted difficulty of following questions. Also, the **database, the API gateway and the website** itself are hosted on **cloud services**.