

SAI DHARSHINI AKULA

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Education

George Mason University

Master's in Computer Science, **CGPA: 3.83/4.0**

August 2022 – May 2024

Fairfax, Virginia, USA

Sreenidhi Institute of Science and Technology

Bachelor of Technology in Computer Science, **CGPA: 3.92/4.0**

May 2017 – April 2021

Hyderabad, Telangana, India

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Component-based S/W
- SWE World Wide Web
- DBMS
- Operating Systems
- Software Testing
- Cloud Computing

Experience

Tata Consultancy Services

Assistant Systems Engineer

September 2021 – November 2022

Hyderabad, India

- Enhanced REST API & microservices on Google Cloud using Apigee, resulting in a remarkable performance increase of 20%.
- Enforced effective debugging strategies, reducing code issue resolution time by 25% and ensuring problem resolution.
- Orchestrated seamless software deployments, leading to a 15% reduction in system downtime and ensuring uninterrupted service delivery to clients.
- Collaborated with cross-functional teams to gather requirements and deliver solutions, enhancing team productivity by 20%.
- Provided technical support and training to TELIA clients, achieving a 95% client satisfaction rate.

Syoft

Associate Software Engineer

September 2019 – August 2021

Hyderabad, India

- Utilized React.js to create dynamic, user-friendly interfaces, enhancing user experience and satisfaction by 30%.
- Implemented back-end services using the Spring framework, ensuring robust and scalable server-side logic, leading to a 40% increase in application performance.
- Deployed applications on AWS, utilizing services such as EC2, Lambda, and S3, and reducing operational costs by 20%.
- Configured and managed AWS RDS & DynamoDB, providing secure & efficient storage solutions, reducing retrieval times by 35%.
- Architected and implemented a microservices-based approach to ensure modularity and independent scalability, resulting in a 50% improvement in system scalability and maintainability.
- Worked in an agile development environment, actively participating in sprint planning, daily stand-ups, and retrospectives.

Ogive Technologies

Full Stack Engineer Intern

June 2019 – August 2019

Hyderabad, India

- Developed and implemented an application that automated the generation of quotations and invoices for products/services, reducing manual processing time by 30%.
- Utilized OrderId to retrieve and display comprehensive product details, streamlining the information retrieval process by 25%.

Projects

Prospective Student Survey Application Development | Typescript, Java, SQL, Angular, Springboot

December 2023

- Developed and deployed a full-stack web application using Angular and Spring Boot and also implemented Angular components and RESTful web services endpoints.
- Incorporated MySQL with JPA and JDBC, enabling users to perform CRUD operations for survey submissions, enhancing user experience.

AWS-Based Web Development and Deployment | HTML, CSS, Bootstrap, Ajax, Javascript, S3, EC2

November 2023

- Developed a multifunctional web application encompassing a personal portfolio, a department page, and a student survey form using HTML, CSS, JavaScript, Ajax, and Bootstrap.
- Hosted on Amazon S3 and EC2 instance, and utilized cookies for personalized greetings which increased user satisfaction.

4S Navigation tool extension in Visual Studio Code | Java, Typescript, Javascript, VS code

November 2023

- Developed and published the 4S Navigation Tool extension on Visual Studio Code, enhancing coding efficiency.
- Integrated Go to Definition functionality to improve code comprehension for complex tasks.
- Introduced Subword Search, enabling quick identification of elements within variable names and function calls.
- Streamlined access to solutions by integrating Stack Overflow Search directly into Visual Studio Code.

Object Information Retrieval in Real-time | Python, Android Studio

November 2022

- Engineered Android application for real-time object detection empowering blind individuals.
- Secured 82% object recognition accuracy using TensorFlow, converted model to TensorFlow Lite.
- Integrated client-side camera, delivering object detection within 0.5 seconds, providing instant audio feedback.

Aspect-based Sentimental Analysis | *Python, Jupyter Notebook*

April 2021

- Accomplished a 10% increase in accuracy through hyperparameter tuning and feature engineering techniques.
- Increased user engagement by 30% through the implementation of an intuitive GUI, resulting in improved user experience.

Efficient House Rent Prediction Using Machine Learning | *Python, Jupyter Notebook*

January 2020

- Developed a scalable solution capable of handling datasets with over 100,000 entries, ensuring reliable performance even with increased data volume.
- Achieved a 15% increase in prediction accuracy compared to baseline models.
- Attained an R-squared value of 0.85 through rigorous cross-validation, indicating high predictive accuracy and reliability.

Technical Skills

Languages: Java, Python, C++, C, SQL, HTML5, CSS, JavaScript, Typescript.

Methodologies: DevOps, Agile.

Frameworks & Libraries: Spring Boot, Bootstrap, Hibernate, Angular, React, jQuery, JUnit.

AWS: S3, EC2, API Gateway, Lambda, RDS, DynamoDB

Databases & Servers: Oracle, MySQL, PostgreSQL.

IDEs: Eclipse, NetBeans, Jupyter Notebook, WordPress, Android Studio, Visual Studio, Google Colab, Spring Tool Suite, Postman.

Others: RESTful web services, AJAX, JSON, PHP, Kubernetes, Docker, Jenkins, Git, JIRA, and Unix.

Technical Certifications & Achievements

- **AWS Cloud Certified Practitioner-** Amazon S3, Amazon EC2, EFS,EBS. **(April 2024 – April 2027)**
- Programming in Python and Database Management System certifications from NPTEL by **IIT-K & NASSCOM.**
- **Java Data Structures and Algorithms** Masterclass from UDEMY by Elshad Karimov.
- **Awards: Outstanding Academic Achievement Award** (MS in George Mason University, 2024)