Amruthavalli Yerranagula Venkata Sai Ram

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Education

University of Florida — **Gainesville, FL**
Master of Computer Science **GPA:3.66/4.0** — August 2022 – May 2024
Coursework: Analysis of Algorithms, Distributed Operating Systems, Computer Networks, Machine Learning, Advanced Data Structures.

National Institute of Technology, Durgapur — **Durgapur, West Bengal**
Bachelor of Technology in Computer Science & Engineering **GPA: 8.52/10.0** — August 2016 - May 2020
Coursework: Algorithms Analysis & Design, Object Oriented Programming, Data Structures, DBMS, Operating Systems

Experience

DATA ANALYST — **Gainesville, Florida**
Phycare Solutions — June 2023 – August 2023

- Developed and deployed a medical coding and billing database system using **VB**, **Crystal Reports**, **SQL Server**, **Java**, and **Java-based tools** in a multi-platform environment, resulting in a 20% increase in data accessibility and 30% faster reporting.
- Managed a complex medical records and billing information database, utilizing efficient data models for improved data accessby 15%, reporting by 40%, and validation by 22%.
- Conducted regular maintenance tasks in the **SQL Server** environment, including database **backups**, **indexing**, and **query optimization**.
- Designed and implemented dynamic generic and ad-hoc reports, ensuring 99% data integrity and streamlined reporting by 25%.

FRONT END ENGINEER — **Bangalore, Karnataka**
Accenture — September 2020 – July 2022

- Leveraged strong proficiency of modern **React.j**s, including **hooks** and context **API**, to develop robust and scalable frontend solutions for client projects.
- Contributed to Accenture's adoption of modern frontend approaches by implementing cutting-edge techniques and best practices, ensuring the delivery of high-quality and innovative web applications.
- Played a key role in implementing micro frontend approaches utilizing webpack module federation, enabling seamless integration of independently deployable frontend modules across large-scale applications.
- Utilized **Node.js** with Express for backend development tasks, enhancing frontend-backend communication and ensuring efficient data flow within the application architecture.

INDIAN INSTITUTE OF TECHNOLOGY, HYDERABAD — **Hyderabad, Telangana**
Internship — May 2018 - June 2018

- Conducted extensive **NLP** research for speech processing, demonstrating proactive expertise development.
- Proficiently used **MATLAB** for Linear Prediction and MFCC Analysis, achieving a 15% accuracy and efficiency boost.
- Collaborated effectively in a diverse research team, promoting idea exchange, and fostering a collaborative atmosphere.
- Demonstrated strong analytical skills and attention to detail, optimizing speech processing algorithms for superior results with 95% accuracy in challenging projects.

Skills

Programming Languages & Technologies: C++, Python, Java, Java Script, SQL, PL/SQL, ASP.NET, HTML, CSS, Node.JS, React JS, Docker, Postman, Oracle, PySpark.
Databases: MySQL, AWS, PostgreSQL, MSSQL.
Others: Data Structures, Algorithms, Operating Systems, DBMS, SQL, Object Oriented Programming, Agile Methodology.

Projects

Tweeter | Erlang, Akka, WebSocket API — **University of Florida, Gainesville**
October 2022 - November 2022

- Modelled a Twitter clone engine using **WebSocket** API in **Erlang** to perform activities like registration, tweet, re-tweet.
- Effectuated system processing for 11,000 users with every user having a maximum of 10 tweets of string length of 20.

Genetic Algorithm approach for K-coverage problem — **NIT Durgapur, West Bengal**
January 2019 – April 2019

- Developed a wireless sensor network in an **Artificial Intelligent** digital watch based on a **genetic algorithm** approach to address all the targets with same proximity which increased the coverage by **34%** by minimizing the nodes.
- Written **python source code** for this algorithmic approach and calculated the fitness function and minimized the number of sensor nodes in sensor network fulfilling the K-coverage of sensor nodes.

Certifications

AWS Certified Developer Associate (DVA – C02) | Amazon Web Services — August 2023

Extra-Curricular

- Developed my personal website using **React.js** at amruthavalli.com.
- Secured third in **Hackathon coding event** in my undergraduate college.