Yaswitha Sai Atluri

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Education

University of North Carolina at Charlotte GPA: 4/4   **Aug. 2023 – Present**
Master of Science in Information Technology with Emerging Technologies Concentration   *Charlotte, NC*

Vellore Institute of Technology, Chennai   **Jul 2018– May 2022**
Bachelor of Technology in Electronics and Communication Engineering   *Chennai, India*

Experience

UNC Charlotte: Graduate Research Assistant   **Jan,2024 - present**
Graduate Research Assistant, Visual Analytics   *Charlotte, NC*
* Instructed over **80** students improving class performance by **20%** in mastering data visualization tools like **Tableau**, **D3.js**, **JavaScript**, and **TypeScript** through interactive coursework and hands-on projects. Mentored students in research initiatives, applying R and Python for statistical analysis and data exploration. Assisted the professor with course design, grading, and scheduling, while also conducting research on metabofood datasets to analyze supplements and disease cures using advanced visualization techniques.

Capgemini   **June 2022 - July 2023**
Software Developer/ Senior Analyst   *Bangalore, India*
* Actively participated in the full **SDLC**, collaborating in daily Scrum meetings to deliver solutions aligned with Agile methodologies. Developed and maintained scalable backend systems reducing process time by **30%** for **POS** and **Back Office** platforms, creating custom **RESTful APIs** for seamless front-end and backend communication.
* Spearheaded **CI/CD** pipeline setup, automating deployment with github to enhance productivity and reduce development time. Led development of modular backend services using microservices architecture, improving scalability to handle **1000+** users.
* Collaborated with cross-functional teams, troubleshooting and resolving production issues efficiently. Performed performance tuning, ensuring backend optimization and data integrity for **SQL** Server and **Oracle** databases.

Capgemini   **Jan 2022 - June 2022**
Senior Analyst Intern   *Banglore, India*
* Developed and deployed a **full-stack** web application for a client, allowing users to explore detailed car information such as features, engine specs, performance, and safety. Led the integration of **front-end** and **back-end** components, optimized application performance, ensured security compliance, and worked closely with stakeholders to deliver a user-focused solution within project timelines. Collaborated with cross-functional teams to refine features and enhance overall user experience.

Technical Skills

Programming Languages: Java, Python, C# , C, C++, HTML/CSS, JavaScript, SQL
Developer Tools:VS,Eclipse, Virtual Box, VM ware, Git, MSSQL, Swagger, Figma, Jupyter, Google Colab, Cisco, Tableau, PowerBI
Frameworks/Softwares: Angular, .NET Core,ASP.NET, NodeJS, W3af,Metasploit, Jira, WordPress, Apache spark, Hadoop, Kafka
Database and Cloud : Entity Framework, MySQL, PostgreSQL, NoSQL (MongoDB), MS Azure, AWS, Docker, Kubernetes
Libraries : NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, OpenCV
Other Tools : Data Bricks, Social Engineering Toolkit, Burp Suite, Nmap, Sqlmap, Wireshark, SNORT, SQL workbench
OS: Windows, MAC, Linux, Kali Linux, Ubuntu

Projects

SmartAssist Chatbot | *Java, SpringBoot, Dialog Flow, NLP*   **Aug 2024**

Developed an **AI-powered** chatbot for real-time customer support, leveraging **AWS Lambda** for serverless operations. Integrated data analytics using **AWS CloudWatch** to track user interactions, performance metrics, and feedback. Analyzed data to optimize response accuracy and improve user experience, driving continuous enhancement of the chatbot's functionality.

Event Management System | *JavaScript, MongoDB, EJS, Express,Mongoose,Nodejs*   **May 2024**
· Built a secure Event Management System with user authentication, authorization, and session management. Implemented security measures against **XSS** and **social engineering**, and added **RSVP** functionality for registered users. Conducted thorough testing to ensure data integrity and system reliability.

Electronic Medical Record System | *MySQL Workbench, Stored Procedures, API, Triggers, Indexes*   **May 2024**
· Designed and implemented an **Electronic Medical Record** (EMR) system to streamline patient data, clinical records, and administrative tasks. Developed an **API**, user authentication, role-based access control, and audit trail mechanisms while optimizing database performance with indexing and views for efficient data retrieval.

Charlotte NPA's Living Conditions Analysis | *Tableau Prep builder, Dashboard, PowerBI, Visual Analytics*   **Dec 2023**
· Built a Tableau Story for Charlotte's NPAs exploring it's demographic and socioeconomic factors

Intrusion Detection and Prevention System | *Kali Linux, Ubuntu, SNORT, IDPS*   **Jan 2021**
· Developed and configured an Intrusion Detection and Prevention System (**IDPS**) using SNORT on a victim machine (**Ubuntu**). Customized rules were written to detect and prevent live cyberattacks simulated from a **Kali Linux** attacker machine.

Publication/ Achievements

SSC Certified- Security Analyst, Gold medal by NASSCOM, Govt of India and Microsoft Azure Fundamentals AZ-900
IEEE Publication on Prediction of Volcanic Fallout Spread Using Deep Learning Techniques, A Dogo RangSang on Machine Learning model on Face Mask Door Unlocking system