Zaheer Abdul

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EDUCATION

University of Maryland, Baltimore County | *Graduate Assistant*   Baltimore, MD
Master's in Computer Science(CGPA-3.66/4.0)   *Aug 2022 – May 2024*
Courses Taken : Design and Analysis of Algorithms, Advanced Computer Architecture, Principles of Computer Security, Coding Theory and Applications, Information Retrieval, Introduction to Data Science, Quantum Computing, Software Testing.

Velagapudi Ramakrishna Siddhartha Engineering College   Vijayawada, India
Bachelor of Technology(B.Tech) in Information Technology(CGPA-3.42/4.0)   *Jun 2017 – Jul 2021*
Courses Taken : Operating Systems, Computer Networks, Computer Architecture, Software Engineering, Programming Languages, Web Development, Data Science, Artificial Intelligence, Deep Learning, Machine Learning, Data Structures, Design and Analysis of Algorithms, Mobile Computing, Web Technologies, Cloud Computing.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C# (.NET), SQL, NoSQL, JavaScript, TypeScript, HTML, CSS (bootstrap, Tailwind).
Developer Tools: VS Code, Visual Studio, Eclipse IDE, Figma, IntelliJ, PyCharm, Jupyter Notebook, Postman, Git, SSMS.
Integrated Tech Stack: Angular, ReactJS, NextJS, Spring, Spring Boot, NodeJs ,ExpressJS, MySQL, MongoDB, Docker, Agile, AWS Services, Azure Services, IBM cloud Services, Linux, Salesforce, PEGA.
Certifications: Azure Fundamentals, Certified Salesforce Platform Developer-1, Certified Pega Senior System Architect.

EXPERIENCE

Full Stack Developer (Intern)   May 2023 – Aug 2023
CowanSystems , LLC.   *Baltimore, USA*
- Specialized in full-stack web app development, with a strong emphasis on Angular for frontend development, while seamlessly integrating and optimizing the backend for robust user experiences.
- Optimized efficiency and scalability by leveraging Azure Functions for the backend, resulting in a 30% reduction in API response time and handling a 40% increase in concurrent users.
- Adeptly administered MySQL as the backend database system, enhancing database performance by 25%, and reducing query execution times from an average of 200ms to 150ms.

Software Engineer (Java Developer)   Sep 2021 – Jun 2022
Accenture India Pvt. Ltd.   *Hyderabad, India*
- Collaborated with a team of 6 experts in Spring Boot microservices development, implementing crucial product validations for Walmart's sales platform.
- Architected advanced algorithms to optimize discount application accuracy, reducing pricing errors by 40% and boosting customer satisfaction by 25%, While maintaining platform performance and ensuring an optimal user experience.
- Orchestrated the integration of Java 8, ReactJS, NextJS, NodeJS, and ExpressJS to develop a scalable microservices architecture, resulting in a 15% improvement in overall system efficiency.

Artificial Intelligence Developer(Intern)   May 2020 – Jun 2020
Smart Bridge Pvt. Ltd.   *Hyderabad, India*
- Developed and implemented an Intelligent Customer Help Desk with Smart Document Understanding, leveraging Watson Assistant to automate customer support inquiries; reduced average resolution time, resulting in a 30% increase in customer satisfaction.
- Analyzed over 500 documents using Watson Discovery, identifying key insights and trends; leveraged web hook link to seamlessly integrate Watson Assistant with Node Red, enhancing the user experience and reducing response time by 40%

PROJECTS AND PUBLICATIONS

Peer to Peer Encrypted Distributed File System | *Java, RMI Library, Multi-Threading.*   Aug 2022 – Dec 2022
- Designed a peer-to-peer file system that maintains Functionalities and allows up to 1000 concurrent users to create, read, delete and edit files, collaborating with a team of 3 members.
- The AES algorithm's encryption logic ensures that unauthorized users are unable to interfere with the system, bolstering security with a robust 256-bit encryption key.

Automatic Detection of Sewer Defects via Hierarchical Deep Learning   Jan 2021 – Jul 2021
- Generated a convolutional neural network (CNN)-based image processing model for inspecting cracks in a data-set of 40,000 images, employing ResNet50, VGG10, and Inceptionv3 CNN models.
- Achieved an exceptional 99.8% accuracy rate with the ResNet50 model, and this work resulted in a published research paper (PUBLICATION[ICCES 2021]).

Food Donation Interface | *Java, PHP, TypeScript, HTML, CSS, Google Firebase*   Jan 2020 – May 2020
- Designed a responsive Android app, utilizing Google Firebase Authentication to enhance data security, enabling seamless registration and login, resulting in a 30% boost in registration rates.
- Java framework Android Studios for fluid interactions and browsing 2 web pages concurrently for web page routing.