Glen Correia

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Professional Summary

Adventurous and **Tech Explorer** software engineer with over **3 years** of hands-on experience navigating the exciting world of technology. With a remarkable journey of **7+ years**, I have embarked on every step of the **software lifecycle**, from inception to the maintenance of state-of-the-art applications and personalized solutions. My exceptional **analytical abilities**, **problem-solving** finesse, and **out-of-the-box** thinking makes me an asset. I possess excellent **communication skills**, both written and verbal, enabling me to convey ideas effectively.

Education

Master of Science - Computer Science   **GPA:3.7/4**   August 2021- May 2023
University of Texas at Arlington. **Courses**: Software Testing, Distributed Systems, Software Design Patterns, Machine Learning, Design Analysis of Algorithms.
Bachelor of Engineering - Information Technology   **GPA:3.2/4**   August 2016 - June 2020
University of Mumbai.   **Courses**: Cryptography Network Security, IoT, Cloud Computing, Database Systems, Microcontroller & Embedded Programming.

Technical Skills

- **Languages & Web Technologies:** Java, Python, JavaScript, Angular 11, JSP, JSON, jQuery, AJAX, HTML5, CSS3, React JS.

- **Databases:** MySQL, Oracle, MongoDB, SQLite, PostgreSQL.

- **Frameworks & Tools:** Spring, Hibernate, Spring Boot, REST, Micro Services, Jenkins, Maven, Docker, Kubernetes, JUnit, Mockito, GitHub, GitLab.

- **Platform & Methodologies:** Tomcat, Lambda, Kanban, Apache Kafka, Eclipse, MySQL Workbench, TOAD, Apigee, Swagger, Agile, Scrum, Jira.

Professional Experience

Graduate Research Assistant, University of Texas, Arlington, United States   April 2023-Present

- Actively participated in regular **research** meetings and discussions with Dr. Noor, providing progress updates and valuable suggestions for improving translation techniques for array-based loop programs using **Java** and **Scala**.

- Conducted **comprehensive** literature reviews to stay updated with the latest advancements in the field, **enhancing** research outcomes and accuracy while collaborating seamlessly with an interdisciplinary team to design and deploy scalable big data solutions on **Databricks**, ensuring accuracy, and **productivity**.

- Spearheaded the development of pioneering **algorithms** and methodologies to maximize **workflow enhancement** by **20%** and optimize data processing and storage, resulting in improved **performance** including Hadoop, Spark, and NoSQL databases, to handle massive data volumes with seamless execution.

Software Engineer, Reach and Teach Learning Solutions, Mumbai, India   July 2020-August 2021

- Implemented a critical **client-facing RIA** web application using **React Js**, Angular, TypeScript, JavaScript, HTML5, and CSS3. Delivered an exceptional user experience by leveraging **responsive design** principles and ensuring cross-browser compatibility for the ICI Website, resulting in a **20% faster** website and a **30% reduction** in crashes.

- Developed robust **RESTful** web services utilizing **JSON** and **XML** for seamless integration with internal and external systems. Successfully designed and implemented **APIs** that facilitated data exchange and **improved** overall system interoperability.

- Played a crucial role in implementing **Continuous Integration** practices using **Jenkins, GitLab, SonarQube, and Git**. Automated build, testing, and deployment processes, resulting in increased development efficiency and reduced **time-to-market** for software releases.

- Cooperated with senior engineers and management to **optimize** the website design and **Microservices**, increasing user satisfaction by **15%**.

- Performed enhancements and **bug fixes** for the website, resulting in a **25%** improvement in website stability and a **40%** reduction in bugs.

Software Engineer Intern, Webstag Technologies, Mumbai, India   January 2019-June 2019

- Streamlined web applications, utilizing technologies such as **Spring IOC** for dependency injection and **Swagger** for API documentation and testing resulting in a **30%** reduction in business process time.

- Created RESTful services using **Spring REST** for CRUD operations and constructed reusable front-end structures that interacted with these services, enabling **100+** real-time customer data.

- Employed monitoring tools such as **EC2, Lambda,** and **Log4J** to **analyze logs** and performance metrics, identifying areas for improvement and **proactive** issue resolution.

- Implemented **robust** data storage and **retrieval** solutions using AWS services such as **Amazon RDS** and **DynamoDB**, ensuring data integrity, scalability, and efficient query performance for the application's backend, resulting in seamless user experiences.

Projects

Mercado Escolar Application   github.com/glencorrreia/MercadoApplication   August 2022-December 2022

- Enhanced the functionality of a **full-stack** web application by 100+ users using PHP and MySQL for the backend, and **ReactJS** for the UI.

- Improved an impressive **API** hit ratio of **94%**, ensuring **smooth functionality** of the application for users.

- Analyzed modern **Event Driven Architecture**, improved application performance by **80%**, and hosted the application on UTA Cloud-Azure.

Serve Me System (SMS) Application   github.com/glencorrreia/ServeMeAndroid   May 2022-August 2022

- Developed an Android application to enable **1000+** users to request service efficiently using Java programming and ASP.NET API calls.

- Followed the 7 steps of **Waterfall methodology** to plan and execute the project, ensuring a **test-driven** deployment practice.

- Generated an impressive efficiency rate of 80% in implementing the API calls, ensuring the smooth and **seamless** functioning of the app.

Street Child Lost and Found System   github.com/glencorrreia/StreetChild   January 2020-May 2020

- Researched and developed a web-based application to identify missing children with an impressive accuracy rate of **94%** using **advanced** machine learning techniques such as **Logistic Regression** and Facial Recognition with an accuracy rate of 99%.

- Authenticated cutting-edge technologies such as React JS, PHP, JavaScript, and Python to develop a **user-friendly** and **intuitive** interface.