PERRIN NJIETCHE

Software Engineer

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Profile Summary

- Proven ability in software development using **Java - Spring Boot**, **Camunda 8**, Flutter and advanced backend system security.
- Proficient in project leadership managing teams and applying Agile methodologies for efficient high-quality software delivery.
- Strong in application design creating user-friendly apps integrating REST APIs and implementing CI/CD practices.
- Experienced in cross-domain projects including e-learning, mobile, banking, anti-cheating systems, and CRUD applications.

Education

Bachelor of science, Computer science, *University of Yaounde I*   June 2023
GPA: 3.21/4.0
COURSEWORK: Advanced Algorithm design, Software engineering, Computer network, Operating Systems, Business Intelligence, Advanced programming techniques, Quality assurance of softwares.

Experience

PKFokam Research Center - Software Engineer   July 2023 – present
- Managed data migration from SARA V1 to SARA V2 using **Talend Open Studio** for seamless transitions.
- Played a vital role in enhancing the stability of the SARA Bank mobile app by implementing a robust architecture and reducing crashes by more than 60%.
- Oversaw the development of the Internet Banking Web Platform, implementing key features with Spring Boot and Spring Security.
- Joined the Core Banking team to develop Afriland's new system using GraphQL, BFF, WebSocket, and **deepened knowledge of banking concepts.**
- Joined the **Payment team** to develop a new Generation of payment services in Africa, using Camunda 8, and Spring boot.

SAHT African Technology - Lead Software Engineer   July 2022 – September 2023
- Led a team of 5 developers in creating a BUS reservation app using Flutter and Firebase, **demonstrating strong leadership skills.**
- Applied SDLC, SOLID principles, and Gantt charts to streamline processes and deliver high-quality software, improving team productivity by 25%.

Elios Consulting - Software Engineer Intern   May 2021 – December 2021
- Applied SDLC and SOLID principles with Flutter to develop a house rent management system, ensuring efficient software.
- Leveraged SQLite3 database in Flutter to support seamless operations, improving data handling and storage reliability.

Projects

Iwork Freelance, *Microsoft Azure, Spring AI, Microservices, Java, GraphQL, Spring Security*   August 2024 – present
- Developed the Iwork job-searching platform using Spring Boot and Spring Security for secure user authentication and authorization. Deployed the system on **Azure** and integrated **Spring AI and Controller Advice** for easy message formatting. Leveraged Docker for containerization, enabling scalable deployment and efficient management of microservices. These enhancements improved the platform's performance by up to 75%, resulting in faster response times and increased user satisfaction.

E-Learning Software, *Docker, CI/CD, SCRUM, Spring Boot, Flutter, SQL*   April 2023
- Developed an e-learning platform using Spring Boot and React JS, leading the backend team and implementing CI/CD with Jenkins and Docker. Integrated an anti-cheating Flutter app with **machine learning** and **flutter_sensor_plus** to detect cheating attempts, enhancing the platform's integrity and reducing cheating incidents in online evaluations at the University of Yaoundé 1 by 50%.

Sudoku Game Programming, *JavaFx, Algorithms techniques(2-4 tree), Java*
- Developed a **Java desktop Sudoku application** using JavaFX, implementing the **backtracking algorithm** to efficiently solve puzzles.Optimized performance by i**ntegrating a hash table with a 2-4 tree to manage and access Sudoku problems stored in an SQLite3 database**, significantly reducing lookup times. This optimization led to a performance improvement of approximately 50%, enhancing the application's responsiveness and user experience.

Technical Skills

Programming Language: Java, Dart, Python, SQL, C, HTML, CSS

Software Tools / Frameworks: Spring, Docker, GraphQL, Github&Gitlab CI/CD, Flutter, PostgreSQL, Remote procedure call, MongoDB, Firebase, SQlite3, PostMan, Grafana, Prometheus, JUnit, Mockito, Microsoft Azure, TestContainers, Java Template Engine(JTE).

Software Concepts: OOP, SOLID principles, CI/CD, version control, Unit Testing, REST APIs, Design patterns, Big bang data migration principle, Remote configs.

Hobbies

EA Sports & Physical Activities
- Video games
- Football
- Amateur marathon running