NELANI MALUKA
SOFTWARE DEVELOPER

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SUMMARY

Software Developer with experience in Java, Spring Boot, APIs, SQL, and React. Skilled in building secure, scalable applications and recently completed an NQF Level 6 in Database Development. Motivated to contribute to impactful projects and always eager to learn and grow.

EDUCATION

CTU Training Solutions - NQF Level 6, IT Systems and Database Development   **2023 - 2025**

Certifications: Azure fundamentals, MTA: JavaScript, MTA: Python, MTA: HTML/CSS

PROJECTS

AI Recipe Generator – API (Java + Spring Boot)   **Live Demo**

- Designed and developed a RESTful API backend using Java and Spring Boot to generate an AI-assisted recipe Generator.
- Secured the platform with JWT authentication, Google OAuth 2.0, and role-based access control (RBAC) to enforce API permissions.
- Structured and optimized SQL queries to persist user preferences, ingredients, and dietary profiles, enabling accurate and efficient recipe retrieval.
- Enabled real-time recipe feed updates using WebSockets, and established a CI/CD pipeline via GitHub Actions with JUnit + Mockito testing deployment to Render.

Blog Land – Full-stack blogging platform (Spring Boot + React)   **Live Demo**

- Built a full-stack blogging platform using Java and Spring Boot, React.js, and MySQL, implementing RESTful APIs for CRUD operations on posts, comments, and users.
- Applied Object-Oriented Programming (OOP) principles and SDLC methodologies across the project lifecycle for maintainable code design.
- Demonstrated strong Java fundamentals including Collections Framework, Stream API, exception handling, multithreading basics, and records where applicable
- Utilized Hibernate/JPA for efficient database interaction and data persistence.
- Integrated AI-driven content moderation using external APIs to filter inappropriate content.

Caching Proxy – Backend service (Java + Maven)   **Project-code**

- Developed a Java-based caching proxy service to fetch and store external API resources (JSON, images, PDFs, binaries) with configurable eviction policies.
- Implemented automatic content-type detection to convert responses into structured API response objects (text, image, binary).
- Added retry mechanisms, error handling, and logging to ensure reliable and resilient API responses.
- Designed for easy execution via command line using Maven, showcasing clean architecture and maintainable backend code.
- Used async requests so the service can fetch multiple API resources at the same time, making it faster and more efficient.

PROFESSIONAL EXPERIENCE

Learnhall - Software Developer Intern   **Nov 2024 - Aug 2025**

- Built 3+ responsive websites using React.js, HTML, CSS, and JavaScript in Agile sprints, delivering features on schedule.
- Added interactive Q&A sections, dynamic forms, and countdown timers, improving user engagement and experience.
- Managed code versioning using Git and GitHub, contributed to feature branches, reviewed pull requests, and maintained clean commit histories.
- Collaborated with cross-functional teams to research solutions, explain design decisions, and solve technical challenges under evolving requirements.

Brainnest - Software Developer (Summer Internship)   **Jan 2023 - Feb 2023**

- Built Python applications (Hangman game, FTP file transfer tool) demonstrating algorithm design and problem-solving using libraries.
- Collaborated on a final group project under tight weekly deadlines, sharing code, reviewing peers' solutions, and optimizing algorithms.
- Participated in code reviews and discussions, improving overall code quality and team productivity.