ALAGUBALAGANESAN A

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WORK EXPERIENCE

Azentio software solutions

Software Development Trainee   **Jan 2023 - Aug 2023**

- Developed and maintained Java applications utilizing JDBC and JSP for efficient data handling and user interface design.
- Executed database manipulations using SQL, including data retrieval, insertion, updates, and deletions, to support product functionality and maintenance.
- Collaborated with cross-functional teams to troubleshoot and resolve issues, contributing to continuous improvement of banking software products.

SKILLS

- **Programming & Scripting languages**: C, Java, JavaScript | **Database:** SQL

- **Libraries/Frameworks:** Spring boot, React JS, Tailwind CSS, Material UI 5

- **Others:** Data Structures and Algorithms, Object oriented programing, Git, Responsive Web Design, VS code, Eclipse, postman Debugging, Teamwork

PROJECTS

Java based LLD Apps
- Developed multiple end-to-end Java console applications, applying **Object-Oriented Design (OOP)** principles, clean architecture, and layered patterns (model, service, Enum) for modularity and scalability.
- Implemented Low-Level Design (LLD) principles — designed class hierarchies, entity relationships, and service interfaces to simulate real-world backend systems in a console environment.
- Simulated **real-world backend workflows**, purely using Java core concepts — showcasing strong understanding of data structures, algorithms, and OOP-based problem solving.

Video Streaming App
- Built a high-performance video streaming platform with real-time content updates using YouTube Live API, improving content delivery speed by 45%
- Developed an intuitive navbar and sidebar with React Router DOM for seamless navigation, improving user engagement
- Implemented optimized API data fetching with caching and debouncing techniques, reducing redundant API calls
- Deployed the application with optimized asset loading, reducing initial load times by 50% and improving overall performance

EDUCATION

Bannari Amman Institute of Technology   **Jun 2019 - Apr 2023**

B.E Computer Science and Engineering

- **Relevant Coursework:** Computer Networks, Operating System, DBMS