

# AKALEWOLD MAGERA

## Full-Stack Software Engineer

✉ akaalewoldmagera@gmail.com | 📞 +8201098000598 | 🌐 akalewold.com | 📍 South Korea  
🔗 LinkedIn: /in/akalewold-magera-51200228b | 🐙 GitHub: /AKXtreme | 🐦 @akalewoldx

## PROFESSIONAL SUMMARY

Passionate Full-Stack Software Engineer with expertise in **React**, **Spring Boot**, and **JavaScript/TypeScript**. Proven track record of building scalable enterprise applications and interactive web solutions. Strong foundation in computer science fundamentals with hands-on experience in modern development practices, performance optimization, and user-centered design.

### Key Achievements:

- ▶ Developed enterprise-grade management system with **15+ modules** using Spring Boot 3.4 & React 18
- ▶ Implemented performance optimizations resulting in **75-85% improvement** in Lighthouse scores
- ▶ Built real-time chat applications and interactive games with modern web technologies
- ▶ Expertise in full-stack development, from database design to responsive frontend interfaces

## TECHNICAL SKILLS

### Programming Languages:

Java, JavaScript, TypeScript, Python, C++, SQL

### Frontend Technologies:

React 18, Vue.js, HTML5, CSS3, Responsive Design, PWA Development

### Backend Technologies:

Spring Boot 3.4, Node.js, REST APIs, GraphQL, Microservices

### Databases:

PostgreSQL, H2 Database, SQL, Database Design & Optimization

### Tools & Technologies:

Git, Maven, Vite, Webpack, Docker, Figma, Performance Optimization

### Cloud & Deployment:

Netlify, Vercel, CI/CD, Service Workers, Web Security

## PROFESSIONAL EXPERIENCE

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### Full-Stack Developer

2023 - Present

*Personal Projects & Open Source Contributions*

#### SERAT Enterprise Management System (Featured Project)

Architected and developed comprehensive enterprise management system using Spring Boot 3.4.6 and React 18. Implemented 15+ business modules with modern architecture patterns and enterprise-grade functionality. Utilized Java 17 LTS, Spring Security, JPA/Hibernate for robust backend development.

**Technologies:** Spring Boot, React, PostgreSQL, Java 17, Spring Security, Modern JavaScript

#### Performance-Optimized Portfolio Website

Developed professional portfolio with advanced performance optimizations. Achieved 75-85% improvement in Lighthouse performance scores through strategic optimizations including service worker caching, lazy loading, and code splitting.

**Technologies:** React, Vite, Service Workers, Performance Optimization, PWA

#### Real-Time Chat Application (AKMessage)

Developed interactive chat application with real-time messaging capabilities, user authentication, and responsive design.

**Technologies:** HTML, CSS, JavaScript, Real-time Communication

#### Spring Boot Todo Application

Built full-stack todo management system with user authentication and CRUD operations. Implemented Spring Security, Spring Data JPA, and H2 Database integration.

**Technologies:** Spring Boot, Spring Security, JPA, H2 Database, Maven, JSP

## EDUCATION

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### Bachelor of Computer Science

*Shenyang Institute of Technology, South Korea*

**Expected Graduation: 2025**

**Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Database Systems, Object-Oriented Programming, Network Programming, Software Testing, Web Development

## TECHNICAL ACHIEVEMENTS

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### Performance & Optimization Expert

Reduced Time to Interactive from 179.8s to <5s through strategic optimizations. Implemented advanced service worker caching strategies and offline functionality.

### Modern Development Practices

Expertise in component-based architecture, state management, responsive design, and enterprise-level security implementation.

### Continuous Learning

Harvard CS50 (In Progress), actively learning latest technologies and industry best practices.

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Portfolio: [akalewold.com](https://akalewold.com) | GitHub: [@AKXtreme](https://github.com/AKXtreme) | Available for full-time opportunities