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Performance-driven backend engineer committed to delivering the best user experience through scalable architecture and system optimization. Continuously learning and self-motivated, I have explored and applied various technologies to improve service performance and reliability. Experienced in building robust services with Java, Spring Boot, and cloud-native tools. Passionate about real-time communication, search performance with Elasticsearch, and resilient deployments using Docker and Kubernetes.

EXPERIENCE:

GDGoC Sookmyung • 5th Member • Sep, 2024 — Jun, 2025

Actively engaged in the GDGoC Sookmyung 5th cohort, contributing to technical growth through project development, study sessions, and knowledge sharing.

Chaesiktak: Backend Developer for an AI-powered vegetarian meal planner, handling Spring Security, JWT authentication, and external AI/LLM integration.

ReCloset: Developed backend for a sustainable fashion donation platform, submitted to the GDG Solution Challenge 2025.

Flutter Study: Participated in weekly sessions focused on cross-platform development using Flutter and Dart.

BwAI Track: Joined AI-focused track exploring use cases and model integration.

10-Minute Talk Seminar: Delivered a technical seminar on “Implementing Google Social Login with Spring Boot.”

PROJECTS:

Chaesiktak (Vegetarian Meal Planner App)

Backend Developer • 2024.01 — 2024.02

AI-powered personalized meal recommendation app designed to help beginners adopt a healthy vegetarian diet effortlessly.

Key Features:

- Analyze food images to determine vegetarian compliance
- Suggest alternative ingredients if the dish is non-vegetarian
- Provide extensive vegetarian recipe search

Technical Contributions (Backend Team 1/2):

- Implemented user registration with email verification
- Developed JWT-based authentication and role-based access control using Spring Security
- Built CRUD board for admins to upload and manage recipes
- Developed “favorites” (bookmark) feature
- Integrated image analysis and LLM servers to receive and process JSON responses

Recloset (Sustainable Clothing Donation Platform)

Backend Developer & Lead Ideator • 2024.03 — 2024.06

AI-driven platform to facilitate sustainable clothing donation by assessing garment condition and connecting donors to appropriate channels.

Key Features:

- Analyze garment photos to classify donation eligibility
- Connect users with online donation centers for eligible items
- Provide AI-generated solutions for non-donatable clothing issues via LLM server

Technical Contributions (Sole Backend Developer):

- Implemented Google social login for seamless authentication
- Developed role-based access control with admin and general user differentiation
- Deployed backend services using Docker on Google Cloud Platform (GCP)
- Integrated reward system linked to donation activity

ICEY (Interactive Team Collaboration Platform)

Backend Lead Developer • 2025.04 — 2025.07

Interactive collaboration tool enabling anonymous team bonding, casual engagement, and game-like interactions before offline meetings.

Key Features:

- AI-powered small talk: generate casual questions & tips with Gemini API, practice in-app
- Anonymous team space for pre-meeting socialization
- Balance Game, personal memo board, and direct messaging features
- Schedule coordination for arranging offline meetups

Technical Contributions (Backend Team 1/3):

- Implemented Kakao & Google social login
- Integrated Gemini API for balance game and small talk generation
- Developed SSE-based real-time notification system
- Designed and deployed backend on GCP with CI/CD pipeline

Moyora (Interest-based Local Community Platform)

Project Manager & Solo Backend Developer • 2025.03 — 2025.08

Community platform designed to foster local gatherings based on shared interests, integrating authentication, recommendation, and real-time communication features.

Key Features:

- Explore, apply, and join gatherings based on user interests via Elasticsearch-powered search
- Recommend groups by analyzing user activity logs and extracting interest tags
- Enhance security through ID photo-based identity verification
- Board system: post CRUD, join/accept/decline, comments, and notice (one per group)
- Group chat and real-time notifications for applications, approvals, comments, and chats
- Rating system for gathering feedback and satisfaction evaluation

Technical Contributions (Sole Backend Developer):

Phase 1 (Team Project Implementation):

- Implemented Kakao social login with Spring Security OAuth2
- Built ID photo-based identity verification system
- Developed board features: post CRUD, applications (join/accept/decline), comments, notice (one per group)
- Applied JWT-based authentication & authorization
- Optimized tag search performance with Redis caching
- Deployed backend using Docker & GCP Cloud Run

Phase 2 (Individual Refactoring & Extension):

- Replaced SQL-based search with Elasticsearch engine (morphological analysis, n-gram, fuzziness)

Enhanced recommendation system via AI-powered tag extraction using Gemini API
Extended notice system into group chat functionality
Implemented SSE-based real-time notifications (applications, approvals, comments, chats)
Added rating system for gathering satisfaction feedback

SKILLS:

Backend Development

Proficient in Java and Spring Boot to build scalable and secure web services. Experienced with RESTful APIs, security (JWT, OAuth2), and test-driven development.

AI Integration & Scripting

Experience using Python for ML server integration and prompt engineering (e.g., Gemini API, OpenAI). Applied AI in real-world projects to solve social problems.

Database & Infrastructure

Skilled in MySQL, Redis, Elasticsearch, and MongoDB. Familiar with CI/CD pipelines, Docker, Kubernetes, and deploying on cloud platforms like GCP and AWS.

Version Control & Collaboration

Fluent in Git/GitHub workflows. Collaborative and communicative in team-based development, with a strong sense of ownership and initiative in ideation.

Problem Solving & Learning Attitude

Able to quickly adapt to new technologies by reading official documentation. Known for persistence, self-learning, and applying tech to meaningful causes (e.g., vegetarianism awareness, circular economy).

Followership & Team Collaboration

Committed team player who supports leadership effectively, adapts quickly to team goals, and contributes proactively to achieve shared success. Values clear communication, accountability, and continuous learning within team dynamics. Known for building trust within teams by actively listening, taking responsibility, and fostering an environment where ideas flow freely and collaboration thrives.

RECOGNITION:

APAC Solution Challenge 2025 • Google Developer Groups (GDG) • 2025

Recognized for creativity and commitment to solving real-world problems using AI during the APAC-wide challenge hosted by GDG on Campus.

SQL Developer Certification (SQLD) • Korea Data Agency (K-DATA) • 2024

Certified SQL Developer. Certification Number: SQLD-050000676.

SOLUX 30th 1st Semester Project Award – Grand Prize • ICEY • 2025

Awarded the Grand Prize for ICEY, an interactive collaboration platform enabling anonymous team bonding, AI-powered small talk, balance games, and real-time notifications.

My Resume (PDF): [Download PDF](#)