

BUDHIL THIJM

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BACK-END DEVELOPER (JAVA, SPRING BOOT)

Results-driven back-end engineer specializing in Java and Spring Boot with almost 1 year of experience working directly with clients through requirements gathering, architecture design, and MVP delivery to secure resources for long-term development. Experienced in building high-performance, modular RESTful APIs, scaling data-dense search systems using RAG powered semantic search and integrating modern enterprise tools in Agile team environments.

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- Enterprise Java Programming • Design Patterns • Problem Solving Skills • Containerization • Microservices
 - Continuous Integration & Continuous Development • Message Broker • Prototyping
 - Requirements Gathering • Unit Testing • Claude Code

Languages: Java, Swift, C, JavaScript, SQL

Web: HTML, CSS

Web Services: RESTful API, JWT, MCP

Web/App Servers: Tomcat

Frameworks: Spring, Spring Boot, Spring Security, Spring AI, Spring Modulith

Design Patterns: Singleton, factory method, facade, iterator, template

SDLC: Agile, SCRUM, Requirements Gathering, Domain-Driven Design (DDD), N-tier architecture

Tools: Maven, Visual Studio, Git, Docker, Trello, Slack, GitHub, Claude Code, LaTeX, Anki, Claude Agents

Platforms: MacOS, AWS

INDEPENDENT CONTRACTOR EXPERIENCE

COLORS, Tokyo, Japan • 08/2024 – 12/2025

Early-stage startup building a Classical Arabic learning application, seeking funding to support long-term development.

Software Engineer | Figma, Slack

Supported MVP development to help secure funding for a Classical Arabic learning application.

- Led requirements gathering and architecture design for a Classical Arabic learning app, translating a non-technical client's vision into a buildable MVP spec
- Designed the architectural solution and prototype in Figma, contributing to a business pitch that won 2nd place in the Starter Competition.

PROJECTS

Job Search Support System (2026) | Java, Spring Boot, Spring Cloud, AWS, Claude Code

- Formulated practical component-based solution, later adapted to distributed AWS deployment
- Utilized asynchronous Kafka messaging to scrape open-source APIs for job descriptions, so that search queries would use cached descriptions used to reduce latency to less than 500 milliseconds.
- Architected, constructed, and identified software defects in pipeline that match resumes to LLM-compressed job descriptions, measuring accuracy through OpenAI embedding model.

Flight Management & Booking System (2026) | Spring Boot, Spring Modulith, PostgreSQL, Docker, GitHub Actions

- Co-architected and engineered in a team of 4 end-to-end transactional flight booking system within an Agile environment using realistic mock datasets.
- Independently designed the Booking Module utilizing a domain-driven, n-tier Spring Modulith setup allowing real-time flight and seat selection, and integration with other independently developed modules.
- Developed and isolated the automated Pricing Module logic to safely handle complex regional corporate authority validation matrices.

RAG-Powered AI Semantic Search System (2026) | Java, Spring Boot, Spring AI, Redis Vector Store, OpenAI API

- Developed a high-performance retrieval-augmented generation (RAG) Q&A; engine querying a 1,000-page complex technical engineering textbook.
- Built a custom automated ingestion pipeline handling chunking, embedding generation via OpenAI models, and storage mapping in Redis Vector Store.
- Engineered vector-based similarity search returns relevant text blocks <1 second across over 2,000 highly dense pages indexed as 1000-token chunks.

Japanese Dictionary & Flashcard System (2026) | Swift, SQLite, Anki Integration

- Architected and compiled a production-grade localization dictionary parsing deep multi-tiered text scripts including Kanji, Hiragana, and Katakana.
- Consolidated disjointed open-source linguistic stores into a heavily indexed, single SQLite instance to optimize cross-referencing search metrics.

GetGrinnected (Campus Event Navigation Platform) (2025) | Swift, JavaScript, SQL, CI/CD

- Delivered a high-utility event discovery and schedule organization application inside a cross-functional 6-person Agile team configuration.
- Spearheaded full front-end development, successfully binding interfaces smoothly to team-built, distributed JSON REST web APIs.
- Formulated and conducted user testing with 25+ direct target users, translating feedback parameters to lift consumer satisfaction scores by 30%.

EDUCATION

Master of Science in Computer Science

(expected completion 06/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: Algorithms, Software Engineering, Enterprise Architecture, Software Architecture, Cloud Computing

BA in Computer Science & Religious Studies

Grinnell College, Grinnell, Iowa (05/2025)

Key Courses: Algorithms, Software Engineering, Operating Systems, Artificial Intelligence, Japanese Seminar