

# Reach Nou

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## Full-Stack Java Developer

Talented Software Developer with 3 years of professional experience in designing and implementing software applications from scratch to production. Familiar with the creation of back-end and front-end components, quality assurance testing, algorithms, web services, and databases, using modern SDLC methodologies and design patterns. Skilled IT Instructor and good team player specializing in Java and Blockchain technologies. Expertise includes a broad range of technologies like Spring Boot, ReactJS, REST, AWS, PostgreSQL, and MySQL.

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Java • OOP • Spring • ReactJS • RESTful • AWS • Problem Solving  
Database Development • Data Structures and Collections • Project Lead

**Languages:** Java, Kotlin

**Web:** CSS, HTML, JavaScript, Bootstrap, Tailwind CSS

**Web Services:** REST, OAuth 2.0, Microservice, AWS, Kafka

**Web/App Servers:** Nginx

**Frameworks:** Spring Boot, ReactJS, ExpressJS, Hyperledger Fabric (Blockchain)

**Databases:** MySQL, PostgreSQL, CouchDB

**Design Patterns:** Singleton, Template Method, Factory, Proxy, Adapter, Observer, Strategy

**SDLC:** Agile / Scrum

**Tools:** Git, Docker, Visual Studio Code, Android Studio, Eclipse, IntelliJ, NetBeans, DataGrip, Diagram.net, Figma, Postman, Hyperledger Explorer, Trello, Star UML, Jenkins, Maven, ActiveMQ

**Platforms:** Windows, MacOS, Linux

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## PROFESSIONAL EXPERIENCE

**CAREER NOTE:** Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

### KOREA SOFTWARE HRD CENTER, Phnom Penh, Cambodia • 02/2021 – 02/2023

Software professional academy training center.

#### IT Instructor

- Instructed **Java** and **Blockchain** technology.
- Designed and constructed research papers and technical papers.

#### Project Mentor

- Mentored project ideas, features and scope, problems, procedures, and the team.
- Organized the project timeline to ensure the project was delivered on time and reduced risk.
- Consulted and discussed the Entity Relationship Diagram (ERD) design to provide a visual starting point for database design.
- Indicated and corrected the UX/UI design using Figma for the user interface.
- Developed API using REST architectural style and Spring framework to implement web service for the front-end side.
- Designed user interface using ReactJS and integrated API with the user interface to allow the user to interact with the application.
- Included Junit testing to detect, and fix errors, keep our code organized, and improve the quality of software.
- Launched the application by deploying it on a web server like AWS or Google Cloud to get the application publicly accessed.
- Configured the domain name to get the application ready for production.

**KOREA SOFTWARE HRD CENTER, Phnom Penh, Cambodia • 02/2020 – 01/2021**

Software professional academy training center.

**Teacher Assistant**

- Organized the classroom and materials.
- Mentored students during group activities and helped answer student questions.
- Worked with small groups of students and offered additional explanations.

***Technologies Used:*** Java, Spring Boot, JavaScript, ReactJS, PostgreSQL, Diagram.net, Figma, Visual Studio Code, IntelliJ IDEA, Navicat Premium, GitLab, Postman, Windows 10

**ACADEMIC PROJECTS**

**Korea Software HRD Center (2021) HRD Exam:** The HRD Exam is an online examination platform designed primarily for HRD students. It enables teachers to create various types of exams and quizzes, including true or false, fill-in-the-blank, multiple-choice, question and answer, and coding questions. The platform offers an auto-correct feature for certain question types and incorporates advanced anti-cheating systems. Additionally, teachers have the flexibility to assign exams to specific students or classes. Utilized Java, Spring Boot, Thymeleaf, JavaScript, ReactJS, PostgreSQL, Diagram.net, Figma, Visual Studio Code, IntelliJ IDEA, Navicat Premium, GitLab, Postman, Windows 10

**Korea Software HRD Center (2021-2022) It Is Mine:** It Is Mine is a system that gives users the trust and transparency they need to protect their valuable assets. Asset owners can create their assets and post them to the Blockchain network to keep them permanently. They can trade their asset to another owner and search for the asset's information that they want to know. It Is Mine is a very secure system that allows asset owners to keep what they care about. Utilized Java, Spring Boot, JavaScript, ReactJS, Hyperledger Fabric, PostgreSQL, CouchDB (NoSQL), Diagram.net, Figma, Visual Studio Code, IntelliJ IDEA, Navicat Premium, GitLab, Postman, Linux, Hyperledger Explorer, Grafana

**Maharishi International University (2023)**

**Library Management System:** The Library Management System is a digital solution designed to simplify library tasks. It offers features for cataloging books, managing user records, tracking book borrowing and returns, and generating insightful reports. Utilized Java, MySQL

**Maharishi International University (2023)**

**Student Management System:** Designed to streamline student administration tasks. It enables effortless management of student records, allowing users to easily insert, delete, and update student information. Utilized JavaScript, NodeJS, ExpressJS, EJS, CSS, HTML, MySQL

**Maharishi International University (2023)**

**Online Auction System:** The Online Auction System is a sophisticated web-based platform that facilitates the buying and selling of goods and services through an auction process over the internet. This system provides a secure and convenient environment for both buyers and sellers to engage in various types of auctions, such as ascending price auctions, descending price auctions, and sealed bid auctions. Utilized Spring Boot, Spring Web, Spring Data, ReactJS, MySQL, Redux Toolkit, Bootstrap

**EDUCATION**

**Master of Science in Computer Science**

*(In progress via distance education; expected completion 12/2025)*

Maharishi International University, Fairfield, Iowa

***Key Courses:*** Modern Programming Practices, Algorithm, Web Application Programming, Enterprise Application, Web Application Architecture

**Bachelor's Degree in Computer Science**

RUPP (Royal University of Phnom Penh), Phnom Penh, Cambodia, (06/2022)