

# KIDUS YARED

**Software Engineering Student | Backend / Full-Stack Developer**

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## PROFILE

Third-year Software Engineering student at Adama Science and Technology University with hands-on experience in backend and full-stack web development. Strong background in RESTful API development, database design, and software engineering fundamentals. Experienced with Node.js, Express, SQL Server, MongoDB, and React. Seeking backend or full-stack internship opportunities (local or remote) to apply technical skills in real-world systems.

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## TECHNICAL SKILLS

### Programming Languages

- JavaScript
- Java
- SQL

### Backend Development

- Node.js
- Express.js
- RESTful API design
- CRUD operations
- MVC architecture
- Basic authentication & authorization concepts

### Databases

- SQL Server (T-SQL, normalized schema design, relationships, transactions)
- MongoDB (Mongoose ODM)

### Frontend Development

- HTML5
- CSS3
- React (component-based development, props, state, basic hooks)

## Software Engineering Concepts

- Object-Oriented Programming (OOP)
- Database normalization & design
- Algorithms and Data Structures (academic foundation)
- Software Architecture fundamentals

## Tools

- Git & GitHub
  - Postman
  - VS Code
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# PROJECTS

## Bookstore REST API

### *Personal Backend Project*

- Designed RESTful endpoints following MVC architecture
- Developed a RESTful API using **Node.js, Express, and MongoDB**.
- Implemented full CRUD operations for managing books and genres.
- Used **Mongoose** for schema definition and database interaction.
- Designed clean and consistent JSON-based API responses.
- Focused on backend best practices and beginner-friendly project structure.

**Tech Stack:** Node.js, Express.js, MongoDB, Mongoose

**GitHub:** <https://github.com/kidus102/bookstore-api>

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## Logistics & Supply Chain Management Database System

### *Academic Group Project*

- Designed and implemented a **large-scale relational database** for national logistics and supply chain operations.
- Designed and implemented **30 normalized entities**, including Products, Warehouses, Vehicles, Shipments, Orders, Customers, Employees, and Audit Logs.
- Applied:
  - Custom primary key formats (e.g., VE1, DR1)
  - Foreign key constraints and relational integrity
  - Sample operational transactions (orders, deliveries, returns)
  - Auditing and backup logging concepts
- Emphasized real-world scalability, data consistency, and maintainability.

**Tech Stack:** SQL Server, T-SQL, Database Design

**GitHub:** <https://github.com/kidus102/logistics-supply-chain-database>

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## **Student Management System (Java Socket Programming)**

*Academic Project*

- Built a client–server application using Java TCP sockets
- Implemented communication between client and server using I/O streams
- Strengthened understanding of distributed systems and networking concepts

**Tech Stack:** Java, TCP Sockets, I/O Streams, OOP

**GitHub:** <https://github.com/kidus102/java-socket-student-management>

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## **EDUCATION**

**Bachelor of Science in Software Engineering**

Adama Science and Technology University

**Year:** Third Year (Ongoing)

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## **CERTIFICATIONS**

- **Introduction to Frontend Development** — Simplilearn
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## **AVAILABILITY**

Available for part-time or remote internships, primarily in backend development, with openness to full-stack opportunities.