

Adane Berhanu

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Software Engineering

EDUCATION

University of Texas at Dallas Richardson, TX <i>Bachelor's degree in software engineering</i>	Dec 2024
Dallas College (Richland Campus) Dallas, TX <i>Associate's degree in software engineering</i>	Dec 2022

SKIL: Software Engineering •Web Application Development •Full Stack Development •Java Programming •Database Management •Debugging •Agile/Waterfall Methodologies •Testing and Deployment •Team Collaboration •Project Planning & Management •DevOps

Programming Languages: Java
Web Development: HTML, CSS, JavaScript, jQuery, Node.js, React, Bootstrap.
Build Tools: Maven
Web/App Servers: Apache, Tomcat
Web Services: REST API
Containerization & DevOps: Docker, Kubernetes, Jenkins
Testing: JUnit
Frameworks: Spring Boot, Spring Security, Express, React

Design Patterns: Abstract Factory, Builder, Singleton, Decorator
Cloud Services: AWS
Software Development Tools: IntelliJ IDEA, Eclipse, Visual Studio Code
Version Control: GitHub
Database: MySQL, MongoDB
Platform: Windows, iOS, and Linux
SDLC: Agile/Scrum, Waterfall
Problem-solving, communication, and critical thinking abilities.

ACADEMIC PROJECTS

- **Jira TimeCheck Module: Project Management Enhancement Tool** **ARGO Data Corporation | Fall 2024**
 - **Key Deliverables:** designed and developed a Jira TimeCheck Module to enhance project management workflows by integrating with Jira API for real-time data extraction, analysis, and monitoring. Developed and implemented web-based features such as project, epic, sprint, story, team, employee and team metrics, and automated report generation, displaying project insights via interactive charts and graphs.
 - **Skills:** React.js, JavaScript, HTML/CSS, Highcharts.js, Java (Spring Boot), REST APIs, Jira API Integration, White-box testing, Unit testing, Agile, CI/CD, GitHub version control, Jira, Git, Visual Studio Code, IntelliJ IDEA, Adhering to IEEE and ISO engineering standards.
- **Todo List Web Application** **Fall 2024**
 - Developed a Todo List web application using Spring Boot, allowing users to manage tasks with features like authentication, CRUD operations, and custom user sessions. Implemented security with Spring Security and integrated H2 in-memory database for data persistence.
 - **Technologies:** Java, Spring Boot, Spring Security, Spring Data JPA, JSP, H2 Database, Maven
- **Hotel Management System - Megenagna Hotel** **Fall 2024**
 - Developed a full-stack hotel management application using Spring Boot and React to manage room bookings, customer records, and secure authentication.
 - **Technologies:** Java, Spring Boot, React, SQL, JWT, MySQL, JPA, Maven, Axios, Moment.js, Lombok, Bootstrap.
- **Database Project - Public School Student Information System:** **Spring 2023**
 - Streamlined student records management by designing a relational database.
 - **Technologies Used:** MySQL, PHP, HTML, CSS.
- **Use Case and Design Modeling for Self-Service Gas Pump** **Spring 2024**
 - Created a comprehensive software design for a self-service gas pump.
- **Project Management for Software Development Team** **Spring 2024**
 - Managed a software development project from beginning to completion.
- **Guestbook Application Development and Deployment using Kubernetes and Docker** **Fall 2023**
 - Developed a guestbook application and deployed it on Kubernetes with Docker, achieving seamless scaling and update management. Implemented Horizontal Pod Autoscaler (HPA) and managed rolling updates and rollbacks, ensuring continuous availability. Deployed on IBM Cloud with an emphasis on scalability and reliability.

Certificates

- Full Stack Web Development (MERN) **Evangadi Coding Academy | 2023**

Relevant Courses

- Algorithm Analysis and Data structure | Advanced Algorithm Design & Analysis | Software Engineering | Computer Architecture | Database System | Object Oriented Design | Operating System | Programing in Unix & Other Environment | Software Project Planning & Management | Software Architecture & Design | Requirements Engineering | Software Testing, Verification, Validation, QA | Software Engineering Project |