

# NAHOM HAILEMARIAM

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## FULL STACK DEVELOPER

Dedicated Software Engineer with 5+ years of experience in developing scalable and high-performance applications, specializing in microservices architecture and frontend development across resource management and entertainment industries. Experienced in migrating monolithic systems to microservices, optimizing event-driven architectures with Kafka, and implementing Saga patterns for database consistency. Skilled in Java, Spring Boot, Node.js, Express, React, Angular, GraphQL, and REST. Proficient in CI/CD pipelines using Jenkins and ArgoCD, containerization with Docker and Kubernetes, and cloud technologies like AWS. Experienced in relational and NoSQL databases, including MongoDB, PostgreSQL, Cassandra, DynamoDB, AWS RDS and MySQL. Adept at collaborative development using Agile methodologies and pair programming. Passionate about building innovative and user-centric software solutions that enhance system efficiency and user experience.

Design Patterns • Service Oriented Architecture • Microservices Architecture • Object Oriented Programming  
Data Structures and Algorithm • Dependency Injection • Agile Methodologies • Containerization (Docker)

## SKILLS

**Languages:** Java, JavaScript, Typescript, Python

**Web:** HTML, CSS, React, Next.js, Angular

**Web Services:** REST, JSON, XML, GraphQL

**Web/App Servers:** Tomcat, Apache, Node.js/Node JS, Nginx.

**Frameworks:** Spring, Spring Boot, Express, React, Bootstrap, Tailwind

**Databases:** SQLite, SQL Server, MySQL, MongoDB, PostgreSQL, Cassandra, DynamoDB, AWS RDS

**Cloud Services:** AWS EC2, AWS S3, AWS Lambda, AWS CloudWatch, AWS EKS, AWS SQS, AWS DynamoDB, AWS RDS, AWS SQS, AWS API Gateway, Ingress

**Design Patterns:** Template, Decorator, strategy, Facade, Adapter, Factory, Observer

**SDLC:** Agile, Scrum, Waterfall, Test Driven Development (TDD), Behavior Driven Development (BDD)

**Tools:** RabbitMQ, Docker, Apache spark, Redux, Kubernetes, Kafka, Zipkin, ELK stack, GitHub, Swagger, Terraform, Jenkins, Jira, cucumber, Jasmine, Jest, splunk

**Build Tools:** Webpack, Vite

**Platforms:** Windows, Linux

## 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).

**PAYPAL, Austin, TX, USA • 08/2025 – 12/2025**

**Senior Fullstack Node.js Developer**

- Led the migration of multiple standalone repositories into a unified monorepo to improve scalability, maintainability, and CI/CD efficiency.
- Analyzed and refactored existing codebases to modernize legacy Node.js and Express applications, enhancing performance and reducing technical debt.
- Migrated unit and integration tests from Mocha and Jest to Vitest, streamlining test execution and improving developer productivity.
- Decoupled internal libraries from Express.js, enabling framework-agnostic usage across multiple platforms.
- Collaborated with cross-functional teams to ensure code quality and maintain consistent architectural standards across services.
- Integrated and supported data processing pipelines leveraging Apache Spark for large-scale data analysis and batch processing use cases

- Utilized Node.js, TypeScript, JavaScript, Express, Harness, TestEnv CLI, and Vitest in a modern full-stack development environment.

### **BAZETO VISUAL EFFECTS P.L.C, Addis Ababa, Ethiopia • 01/2019 – 10/2023**

Pioneer of visual effects in Addis Ababa, Ethiopia.

#### **Software Developer**

Developed RESTful web services and mobile applications for enterprise-level systems

- Developed RESTful APIs for product management, including viewing, uploading, and updating resources using Java and Spring Boot, improving product update speed by 30%.
- Engineered intuitive React components for a rental business application, enhancing product management capabilities and driving a 20% increase in user engagement.
- Designed and implemented user interfaces, including signup and login pages for the movie streaming application with database integration using React.js and Spring Boot, improving user signup efficiency by 40%.
- Developed RESTful APIs for managing movie details, user reviews, and authentication using Java and Spring Boot, ensuring seamless data processing and integration with the front-end application.
- Implemented rigorous unit testing strategies with JUnit, significantly reducing bugs by 35% to enhance stability and performance.
- Integrated third-party APIs seamlessly into the movie streaming application to enrich user experience with movie trailers and comprehensive cast information.
- Enhanced search efficiency by 50% through meticulous optimization of search functionality using Elasticsearch, improving user navigation and satisfaction.
- Conducted performance profiling and optimization of critical application workflows, achieving a 30% improvement in transaction processing speeds for the Internal Resource Management Application

### **ACADEMIC PROJECTS**

**Maharishi International University (2024) Traffic Management System:** A college project focused on developing a traffic management system using microservice architecture and stream-based design principles. Built with Spring Boot, the system aims to enhance traffic flow management and reduce congestion. It includes robust monitoring and logging tools to ensure optimal performance and reliability, leveraging real-time data processing and analytics. Utilized Spring boot, Zipkin, ELK stack, Docker, Kafka

**Maharishi International University (2024) Course Attendance System:** A RESTful microservices system to automate course attendance for Compro students using Spring Boot, Spring MVC, Spring Security, Spring Data JPA, and Spring Cloud Services. The system records student attendance via badge scans, stores course and session data, and generates detailed attendance reports. It includes robust data monitoring and logging for optimal performance and reliability, along with features like automated email reminders and role-based access control. Utilized Spring Boot, Kafka, GitHub

**Hilcoe School of Computer Science and Technology (2022):** An Android mobile application designed to help students in Ethiopia prepare for national exams. The app includes a feature for analyzing exam results to identify areas needing improvement, enhancing study efficiency. It features user-friendly interfaces and smooth navigation to ensure an engaging and seamless user experience

### **EDUCATION**

#### **Master of Science in Computer Science**

*(In progress via distance education; expected completion date 06/2026)*

Maharishi International University, Fairfield, Iowa

Key Courses: Web Programming, Software Architecture, Advanced Software Development, Enterprise Architecture

#### **Bachelor of Science in Computer Science**

Hilcoe School of Computer Science and Technology, Addis Ababa, Ethiopia (12/2022)