

Yoseph Assefa

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SUMMARY

- **Results-driven Backend focused Team Lead and Senior Full Stack Developer with 8 years of hands-on experience working with international clients building starting from enterprise-grade applications to mission critical systems that are actively powering business operations today.** My track record extends beyond a CV , I've led teams that delivered high-performance systems used daily by **thousands** of end users across multiple regions, ensuring scalability, reliability, and measurable business impact.
- Expertise in modern technologies, Delivered **123+** web based projects and managing databases with over 4,000,000 record.
- Developed systems processing more than **\$30,000,000 USD annually**, demonstrating strong capabilities in handling complex financial operations.
- Successfully migrated more than **895,000** legacy system records to our newly developed system database.
- Successfully handled end-to-end registration for **133,000+** attendees, covering hotel reservations and flight bookings.
- Proficient in developing web applications using **C#, .Net Core, Java, Spring Boot, MVC, Web API, Angular, React**.
- Experienced in working with databases SQL Server, PostgreSQL, Oracle and cloud platforms such as **Azure** and **AWS**.
- Mentoring and giving training for **5 junior developers** and significantly improving their skills and contributing to successful project outcomes.

EDUCATION

B. Sc (Bachelor Degree in Software Engineering), College of Computing and Informatics (2015-2018)

TECHNICAL EXPERTISE

Microsoft Technologies	C#, .Net Core 2.1, 3.1, 6.0, 8.0 , ASP.Net, MVC , Web API, AzureDevOps, SignalR, MicrosoftIdentity, IdentityServer(Duende), Entity Framework Core(EF), LINQ, xUnit, Moq, BenchmarkDotNet, Hangfire, Jwt Authentication, Umbraco
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Java Technologies:	Java 21, Spring Boot 3.3, Spring Framework 6, Spring Data JPA
	(Hibernate 6), Spring Security, OAuth 2.0, JWT, Keycloak, Springdoc OpenAPI (Swagger), Jakarta Bean Validation, CQRS, Axon Framework, MapStruct, Lombok, Quartz Scheduler, Spring Batch, Apache Kafka, JMH, Maven, Gradle
Programming Languages	C#, Java, JavaScript, TypeScript, SQL
Frontend Frameworks/Libraries/Markups	Angular, React, HTML5, CSS3, SCSS, Tailwindcss, MaterialDesign
RDBMS	SQL Server, MySQL, PostgreSQL, SQLite
Development Tools	VisualStudio.NET, Visual Studio Code, Postman, IntelliJ
Cloud	AWS S3 Bucket, Azure Event Grid & Functions
Additional Technologies	Oauth2.0, JWT, WebSocket, Docker, Kubernetes, Microservices, RabbitMQ, Redis, Elasticsearch

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EXPERIENCE DETAILS

- ◆ Working as a **Backend Team Lead (senior full stack developer)** for **Custor**, Dec 2023 – now
- ◆ Working as a **Backend developer for Projet Solaire (French)** Nov 9 2025 - now
- ◆ Worked as a **senior Bakcend developer** for **RecongiseDesign**, United Kingdom (Remote) Jun 2025 - Sep 2025.
 - ◆ Worked as a **Backend/full stack developer** on multiple projects for **Excellerentsolutions**, US, Pennsylvania (Remote), AUG 2021 - JAN 2024.
- ◆ Worked as a **senior Backend developer** for **Eptisa Servicios de Ingeniería, S.L Madrid** (Remote) FEB 2023 AUG 2023.
- ◆ Worked as a **Full Stack Developer** for **Engage2excel**, US, Mooresville, North Carolina (Remote), AUG 2022 - JUN 2023.
- ◆ Worked as a **Full stack developer** for **MMCYTECH**, New York, Dubai (Remote), Aug 2019 - Aug 2021.

PROJECT DETAILS

Project #1:

Client: City Government of A.A Driver, Vehicle, Permit, and Control Authority

Dec 2023 to Present.

Role: Senior Backend .Net Developer/Team Leader

Project: Integrated Vehicle Services Management System

A centralized digital platform designed to streamline and modernize vehicle-related services across the city. The system integrates multiple government and private sector processes such as vehicle registration, inspection, licensing, taxation, and service tracking into a single, user-friendly solution. It improves efficiency, reduces paperwork, enhances transparency, and provides real-time data for better decision-making and service delivery.

Responsibilities:

- Developing the Integrated Vehicle Services Management System, automating operations for over **850,000** vehicles across the city.

- Managing an application with **10,000 - 30,000** active daily users.
- Generating over **\$30 million** in annual revenue by enhancing system efficiency and ensuring seamless service delivery.
- Conducting code reviews and pull request merging, offering constructive feedback to peers to ensure high code quality and adherence to standards.
- **Optimized performance with Redis caching**, reducing database load and ensuring sub-second API responses for high-demand operations.
- **Managed high-volume transactional processes** using Hangfire, ensuring reliable background job execution
- Mentoring and giving training to **5 junior developers**, significantly improving their skills and contributing to successful project outcomes.
- Explored **AI/ML integration** for predictive analytics and service optimization, such as predicting peak registration periods, automating notifications, and analyzing user behavior patterns
- Implemented real-time dashboards and reporting to provide actionable insights for operational decisions

TECH STACKS: Asp.net core 8.0, Entity Framework 8.0.4, Fluent Validation 11.7.1, CQRS, MediatR 12.2.0 , AutoMapper 14.0.0, OAuth 2.0, JWT, (Microsoft Identity, IdentityServer(Duende)) 7.2.1, SQL server 2022, Syncfusion 23.1.38 , DevExpress 23.2.4 , Highchart 4.0.0, Angular 18.2.11, Rxjs, , Git, AzureDevOps, Teams, Jira, Agile methodology,xUnit, Docker, BenchmarkDotNet 0.15.2, Hangfire 1.8.21, Redis, Elasticsearch, Stored procedures,Swagger / OpenAPI.

Project #2:

Nov-9 -2025 - Present

Client:- **Projet Solaire (French solar system)**

- The first online platform for solar energy tenders in French, since the Industrial Revolution, homes and communities can produce their own energy at home. We therefore want to redefine the relationship between homes and energy by promoting proximity, sharing, and progress. Working on different modules among them

Modules Developed:

- Hardware marketplace Home: To reduce fragmentation in the hardware marketplace and reduce time procuring and ordering hardware we want to offer a inclusive hardware experience that is seemless from the planning and management of hardware
- ✓ Supplier portal
 - Manage their product listings
 - Respond to their RFQ's
 - Manage their orders
 - Manage their subusers
 - Manage their deliveries
 - Pool offers
- ✓ Installer portal
 - Create request for quotes to suppliers
 - Manage their hardware on the platform
 - Can participate in pool / group buying offers

- ✓ Householder portal
- Create request for quotes to suppliers

TECH STACKS: Java 21, Spring Boot 3.3.x, Spring Framework 6, Spring Data JPA (Hibernate 6), MongoDB, Spring Security 6, OAuth 2.0, JWT, OpenID Connect, Springdoc OpenAPI 2.x (Swagger), Jakarta Bean Validation (Hibernate Validator 8), CQRS, Axon Framework, MapStruct 1.6+, Lombok, Quartz Scheduler, JMH (Java Microbenchmark Harness), Kafka, Maven, Docker, Git, Agile, Teams, Vue.js.

Project #3:

Client:- MEGP (Malawi Electronic Government Procurement)

- Developed a robust **e-Government Procurement (eGP) platform** to modernize and streamline national procurement processes for the **Malawi government**, enhancing transparency, efficiency, and supplier engagement. The system supports **6 integrated modules** and serves multiple government agencies and private sector suppliers.

Modules Developed:

- **Procurement Plans:** Publish annual procurement schedules for all government agencies.
- **Tenders:** Manage and display open tender notices and submission tracking.
- **Procurement Information:** Provide analytics and access to tender statistics, contract awards, and reports.
- **Registration Services:** Digitize supplier registration workflows into the national suppliers list.
- **Suppliers List:** Maintain and validate active and debarred suppliers in real time.
- **Resources:** Centralize access to procurement-related legislation and documentation.

Key Achievements & Technical Contributions:

- **Backend Architecture:** Built using Java (JDK 21) and Spring Boot, implementing modular services for core functions such as tender management, registration, and procurement planning.
- **Data Layer:** Utilized Spring Data JPA with PostgreSQL, optimizing schema design and query performance for handling large-scale procurement data.
- **Security:** Implemented Spring Security for role-based access control, authentication, and authorization of government officers and suppliers.
- **Caching & Performance:** Integrated Redis caching to reduce database load and improve response times for frequently accessed procurement data.
- Explored integration of AI/ML components for predictive analytics and pattern recognition, such as sales trends and inventory forecasting

TECH STACKS: Java 21, Spring Boot 3.3.x, Spring Framework 6, Spring Data JPA (Hibernate 6), PostgreSQL, Spring Security 6, OAuth 2.0, JWT, OpenID Connect, Keycloak 24, Springdoc OpenAPI 2.x (Swagger), Jakarta Bean Validation (Hibernate Validator 8), CQRS, Axon Framework, MapStruct 1.6+, Lombok, Quartz Scheduler, JMH (Java Microbenchmark Harness), RabbitMQ, Maven, Docker, Git, Agile, Teams, React.js.

Project #4:

Client: Recognise Design

Jun 2025 to Sep 2025.

Role: Senior .Net Developer /Contract

Project:Umbraco based projects

Developing and maintained websites and portals using Umbraco CMS on **.NET Core**, creating custom content types, templates, and workflows to manage dynamic content efficiently.

Responsibilities:

- Delivered and supported over **10 UK** client websites, implementing custom themes, SEO-friendly code, and intuitive content management.
- Conducting code reviews, offering constructive feedback to peers to ensure high code quality and adherence to standards.
- Built and maintained fast, responsive and scalable website [columbusitaly](#), [columbusuk](#)

TECH STACKS: Umbraco, HTML, CSS, JavaScript, SQLite, Git, AzureDevOPs, Slack, Jira, Agile

Project: #5

Client:private

Role: Senior Java/SpringBoot Backend Developer / Product Builder

Project: Multi-tenant ERP

Developing a multi-tenant ERP application designed to support multiple clients with isolated data environments while providing centralized management. The system streamlines core business operations including inventory, sales, finance, and HR, with modular architecture for scalability, secure multi-tenant access, and real-time reporting.

Responsibilities:

- Designed modular, scalable and maintainable multi-tenant architecture with role based access control and tenant isolation.
- Implementing customizable configurations for each tenant, including form design capabilities, styles, logo, etc ... for tenant specific entities.
- Implementing efficient API and SQL Server database structures to handle multiple tenant's data securely.
- Developing real-time analytics using Highchart for insights across tenants.
- Building modular ERP features including employee management, inventory, finance, invoicing and notification. □ Reviewing pull request and giving constructive feedback

TECH STACKS: Java 21, Spring Boot 3.3.x, Spring Framework 6, Spring Data JPA (Hibernate 6), PostgreSQL, Spring Security 6, OAuth 2.0, JWT, OpenID Connect, Keycloak 24, Springdoc OpenAPI 2.x (Swagger), Jakarta Bean Validation (Hibernate Validator 8), CQRS, Axon Framework, MapStruct 1.6+, Lombok, Quartz Scheduler, JMH (Java Microbenchmark Harness), RabbitMQ, Maven, Docker, Git, Agile, Slack, Angular 18+, Highcharts, Angular Material.

Project: #6

Client:Eptisa

FEB 2023 - AUG 2023.

Role: Senior Backend Developer

Project: Road Accident Data Management System

RADMS is conduct a nationwide accident data collation, digitizing the paper-based accident records and mapping the accident locations based on the available geographical details for the last six years.

This database will be hosted at the National Road Safety Council Office (NRSCO) and will be available for the usage of other stakeholders at national level to plan, design, develop and implement road safety interventions, so as to improve the road safety environment throughout the Federal Democratic Republic of Ethiopia.

Responsibilities:

- Digitizing of the accident records in database format into the RADMS.
- Mapping these accident records on an ArcGIS platform.
- Analysing accident data using statistical tool and simulation software and conduct basic analysis by adopting simple statistical inferences to understand the cause-and-affect kind of scenarios related to road accidents.
- Designed, developed, and maintained RESTful APIs, delivering a robust and reliable solution.
- Migrated approximately **90,000** paper-based accident records to the system.
- Writing clean and maintainable code while adhering to best practices.
- End-to-end software design and development

TECH STACKS: Angular, Rxjs, Asp.net core, Entity Framework, xUnit, CQRS, PostgreSQL, Git, AzureDevOPs, Git, Teams, Slack, Jira, Agile development, Swagger / OpenAPI.

Project #7:

Client: Depalma Studios

Role: Full Stack Developer Project: Vendorful which is an e-commerce web-based application, That offers SaaS solutions for both sides of b2b relationships.

Responsibilities:

- Designed and implemented user-friendly interfaces for the frontend, ensuring a smooth shopping experience.
- Built and maintained server-side logic, APIs, and databases to support the platform.
- Integrated third-party payment gateways such as PayPal and Stripe to facilitate secure transactions.
- Troubleshoot and debug issues across the full stack, from front-end interfaces to back-end systems, to ensure high performance and reliability.

TECHSTACKS : React.js, RTK, Asp.net core, Swagger / OpenAPI, Entity Framework, FluentValidation , CQRS, MediatR , AutoMapper , PostgreSQL, Git, AzureDevOPs, Teams, Agile,xUnit, BenchmarkDotNet.

Project #8:

Client: Engage2excel

Aug 2022 to Jun 2023.

Role: Full Stack Developer

Project: Recognition Platform / Web Report

CXS PLATFORM is a unique and custom award options are designed to celebrate employee's achievements and fit your brand and culture. Our Moments Collection is a series of numbers, words, and symbols that acknowledge milestones and victories. Our exclusive Stackables are a magnetic, build-an-award system that captures employees' accomplishments during their career in organization and developed web-based reports for high-level managers for different companies, based on their subscription to the system.

Responsibilities:

- Developed robust APIs to enable seamless data integration and accurate reporting.

- Contributed to the front-end development using React, creating dynamic and responsive interfaces for end-users to access and interact with the reports.
- Optimized a long-running SQL query (**50 sec-105 sec**) to execute in just **2-4 seconds** by analyzing execution plans, restructuring joins, and implementing proper indexing strategies, significantly improving application performance.
- Designed and implemented backend services to efficiently manage over **4,000,000** records.
- Optimized database queries to enhance data retrieval speed and performance.
- Achieved a cost reduction of more than **\$42,000** annually by eliminating the need for Tableau software.

TECHSTACKS : React.js , Zustand, Asp.net core , PostgreSQL, Entity Framework, FluentValidation , CQRS, MediatR , AutoMapper, Git, AzureDevOPs, Teams, Agile,BenchmarkDotNet, Hangfire,xUnit,Swagger / OpenAPI.

Project #9:

Client: *Excellerentsolutions*

Aug 2021 to Jan 2024

Role: Full Stack Developer

Project: Enterprise Project Portfolio

The Enterprise Project Portfolio is a comprehensive ERP (Enterprise Resource Planning) system developed to streamline and automate various daily tasks across an organization. It is designed to improve efficiency, transparency, and collaboration by integrating key business processes into a single platform. The system is composed of six essential modules, each serving a specific purpose within the organization:

- Timesheet Module**- Automates the tracking of employee work hours, attendance, and leave management. Employees can log their hours, and managers can monitor productivity and approve timesheets.
- Project Management Module** - Provides tools for planning, executing, and monitoring projects. This includes task assignments, milestones, deadlines, resource allocation, and progress tracking.
- Employee Registration Module**- Manages employee data from onboarding to offboarding. This includes personal details, job roles, salary information, and more.
- Applicant Tracking Module** - Automates the recruitment process by managing job postings, candidate applications, interviews, and selection processes.
- Applicant Tracking Module** - Automates the recruitment process by managing job postings, candidate applications, interviews, and selection processes.
- Performance Management Module** - Enables continuous monitoring and evaluation of employee performance against set goals. Includes features for goal setting, performance reviews, feedback, and appraisal management.

Responsibilities:

- Designed and implementing RESTful APIs with ASP.NET Core to handle data exchange between the frontend and backend, ensuring efficient and secure communication.
- Collaborating with UI/UX designers to translate design mockups into responsive and user-friendly Angular components, while adhering to best practices in web development.
- Collaborated with cross-functional teams to define project scope, set timelines, and ensure on-time delivery of features.
- Optimizing application performance and scalability, focusing on both frontend performance (Angular) and backend efficiency (ASP.NET Core), including database management and server-side logic.

TECHSTACKS : Angular, RxJs, Asp.net core, Backgroundservice, PostgreSQL, Chart.js, Git, Bitbucket, Teams, Agile development methodology,xUnit,BenchmarkDotNet, Hangfire,Swagger / OpenAPI.

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Project #10:

Client: Altour, McDonald's, MasterCard

Aug 2019 to Jun 2021

Role: Web Developer

Project: Event Management Web Based Projects

created a cloud-based registration and payment processing software that empowers you to manage your entire event life cycle, from initial planning to final event reporting. This powerful registration tool can meet the needs of in-person, hybrid, and virtual events of all shapes and sizes, from a free educational series to a small training to a thousand-person conference.

Which includes

- Registrant Check-in Application
- Event and Session Surveys
- Robust Reporting and Report Portals
- Session and Credit Tracking
- Speakers and Exhibitor Management
- Custom Web Design and Registration Experiences
- Document Scanning System/Software/Module

Responsibilities:

- Developed an event-based web application event management application.
- Worked closely with event managers, marketing teams, and other stakeholders to understand their requirements and translate them into technical solutions.
- Involved in Regression test plans for Regression testing.
- Delivered **117+** projects successfully for US and Europe clients.
- Abled to register **133,000+** attendees with their hotel and flight booking.

Environment: Java, Spring Boot, Hibernate, PostgreSQL, Angular, Javascript, HTML5, Css3,Cvent, AWS, Slack.