

Zelalem Teferi Abate

Address: 698, Theodor Street, Addis Ababa, Ethiopia | **Mob:** +251 913630260 | **E-mail:** phatzolo@gmail.com

SUMMARY

Detail and result oriented software engineer and developer with 10+ years of designing and implementing enterprise grade applications for commercial companies and governmental organizations in various technologies and platforms. A zest for solving complex problems with proven skills, secure system development and multi tasked, besides experienced in development and leading national level projects.

REMOTE WORK EXPERIENCE

DISTRIBUTED SOLUTIONS, Inc.

Reston, Virginia USA

<https://distributedinc.com/>

Full-Stack Developer

May, 2022 – Oct, 2022

Frontend

- Maintained, enhanced, and bug-ticket handled in legacy ASP.Net Web Forms and .NET Core projects.
- Developed complex reusable **Web Components** in **TypeScript** and **HTML Web Component** and integrated.

Backend

- Developed **TagHelper**, complex reusable web components and integrated in .NET Core projects.

Platform

- Framework and API
 - .NET Framework (Web Forms, MVC, WebAPI)
 - .NET Core 3+ and Razor Page
 - TypeScript, JQuery, Bootstrap
- Azure DevOps Development, Visual Studio 2022, Software as a Service (SaaS)

Busoness Domain

- Federal Acquisition, Contract Management Software, Procurement, Acquisition Management, Vendor Portal, Business Intelligence, Consulting Services, Business Process Automation, Business Process Management, Reporting and Analytics, Partner and Vendor Engagement, and Software Development

EXPERIAN INFORMATION SOLUTIONS, Inc.

America–Irish

<https://en.wikipedia.org/wiki/Experian>

Full-Stack Developer

Jan, 2022 – May, 2022

Frontend

- Debugged, fixed, developed, integrated and documented in more than five ASP.NET Core and ReactJS based large projects.
- For developement platform and tools, refer below in Platform section.

Backend

- Developed and replaced existed Dot.NET Core based **AWS Secrets Manager** with **AWS.SDK.Secrets.Manager.Caching**, .NET caching client (AWS Lambda - Serverless) and integrated in more than five project repositories.
- Debugged, fixed, developed, integrated and documented in a number of **ASP.NET Core**, **WebAPI**, and **AWS Lambda Microservice** based large projects.

Platform

- Framework and API
 - Microservice (**AWS Lambda, Serverless**), ASP.NET Core
 - RESTful JSON API
 - AWS Client API (**AWS Secrets Manager & AWS.SDK.Secrets.Manager.Caching**)
 - okta Identity
- Developer Tools
 - **AWS CodeBuild**
 - **Rider** (IDE), **Git & Github**, **NuGet & JFrog**, **Jenkins**, **Docker**, **Jira**, **Slack** etc.
 - **MacOS** (Developer Machine)

Busoness Domain

- **Experian Plc** is a global *information services company*, which engages in the provision of data and analytical tools that are used to manage *credit risk, prevent fraud*, target marketing offers, and automate decision making.
- Services:
 - On cloud hosted *Credit Tracking & Reporting Application* for Small Business (White-labeled front-end solution).
 - On cloud hosted API for partners system to interact with via API calls

PROFESSIONAL EXPERIENCE (Full Time)

INFORMATION NETWORK SECURITY AGENCY

Addis Ababa, Ethiopia

Web and Application Engineer

Feb, 2016 - Present

- Analysed more than five enterprises' requirements and designed using *OOAD Methodologies* for several internal and customer projects.
- Worked in multiple business domain, such as *Cadastre, Land Management, Transportation, Finance* (Accounting *ERP*)
- Analysed, designed, led, coached, and oversee a development team for *Addis Ababa Land Information System* project,
- Web GIS application researched, prototype implemented, team established, coached, led, and **upgraded three project legacy applications** from desktop implementation.
- Led Cadastre System Engineering Team with more than five senior experts members
- *For project and team experience, see below.*

Geospatial System Engineer

Nov, 2012 - Sept, 2014

Fleet Management System (I-FMS Projects).

- Engineered & developed web applications, based on **GPS** and **Web Mapping** technology, which used to *track Vehicles* and *manages transportation company resources* (Driver, Dispatcher, etc).
- I-FMS Implemented for more than *five transport companies, two service providers*, and for *Ministry of Transport* (to manage national import & export cargo transportation, mainly on Ethio-Djebuti road route)
- Participated & serviced in National Technical Steering Committee (member) to implement NFMS nation wide in the governmental organizations, such as for Custom Authority.

INSA Cost Compensation Calculator (IC³).

- Automated the house demolition cost compensation calculator of Addis Ababa-City Administration (Urban Planning and Development),
- Appointed to integrate I-GIS mapping sub-module for parcel data visualization and navigation of Addis Ababa city,
- Developed Distributed Desktop Application in which SOA and Messaging Queuing (MSMQ) is used,

Researcher (R&D)

Sept, 2011 – Nov, 2012

Research and Development (I-GIS Project)

- Researched & developed I-GIS, windows desktop application, that aimed to replace the expensive *Arc-View* desktop application which used for creating, editing, & viewing digital map.
- I-GIS developed based on *'mapwingis' Activex Control* that comes from GIS free & open source (*OSS*) *Mapwindow* project,
- I-GIS supports *ESRI Shapefile* specification (*Spatial data* type).

IT Professional (Programmer)

Oct, 2009 – Sept, 2011

General & GIS Application Developer Trainee.

- Trained and developed Windows Form based sample application using C#,
- Application source code coding-standard and documentation,
- Basic GIS knowledge, applications, and products,
- Supported and maintained different customers and clients' vehicle management system applications (GPS based).

Engineering Team Lead

Dec, 2019 - Present

National Cadastre Real Property Registration System (Client Project),
Cadastre System Engineering Team (Internal Team)

- Leading internal Cadastre Engineering Team and working on multiple external client projects,
- Engineered, tested, deployed, trained, customer supported, and maintained the **Cadastre Real Property Registration System** which has been implemented nation wide in Ethiopia and for Addis Ababa Cadastre System,
- Prepared and has been maintained the software engineering artifacts, such as RAD, SAD, Technical Manual (System and software installation, configuration, deployment and setup on server and workstation environments), User Manual,
- Change request engineering and management, patching and maintaining the system, enhancing the system by R&D in-house and realizing new versions,
- **National Cadastre Real Property Registration System** is implemented in six pilot cities and the project is finalized and closedout, currently its warranty period,

Team Lead

Dec, 2019- June, 2021

Web GIS Virtual Team (Internal Team)

- Took the responsibilities to enhance Web GIS prototype, include advanced features, build more team capabilities by R&D,
- Led the team parallelly with **Cadastre System Engineering Team**,
- Adopted industry standards, such as OGC,
- Trained, coached and support the team members,
- Developed GIS standard and web based mapping application which is capable of viewing and editing digital map (Image) with raw spatial data,
- Handover the team to focus on *Cadastre System Engineering Team* completely.

Development Team Lead

Nov, 2017 – Dec, 2019

Addis Ababa Land Information System (Client Project),
Web GIS Team (Internal Team)

Web GIS Team:

- Took the appointment to research Web GIS technologies and established the team,
- Research and studied the Web-GIS domain knowledge, skill, standards, technologies, tools, & expertise needs & presented the founding,
- Prepared the “Initial Operating Capability” as roadmap,
- Led the team and developed the prototype.
- amet commodio magna eros quis urna. Nunc viverra imperdiet.
- Fusce est. Vivamus a tellus.

Addis Ababa Land Information System (Project):

- Appointed as Development Lead for Addis Ababa Cadastre Project to apply and implement the Web GIS prototype and experience gained,
- Requirement developed, analysed, and designed,
- Developed, coach, and led the Land Information (Sub)System Team (One of the subsystem among three subsystems in the project),
- Integrated the developed application with the subsystems, tested, and deployed,
- Trained the customer’s experites.

Addis Ababa Water and Sewerage Authority I-FMS (Project)

- Led, coached, and managed fleet management system development team with more seven members,
- Addtoinally served as Product Owner,
- Led and monitor all the System(SW) Development Lifecycle (SDLC) Process,
- Requirements anlysed and designed using Object Oriented Analysis & Design (OOAD)
- Prepared RAD and SAD documents.
- Used “MS Agile SW Solution 5.0”, Scrum Software Management Methodology,
- Used “MS Team Foundation Server (TFS 2010)” and “Sharepoint 2010” as Version Control, Issue Tracking, and Documentation Tools,
- Mapped Requirement with GPS Configuration and documented,
- Supervised GPS hardware configuration, installation, and HW - System integration.

Project Manager

Sept, 2014 - July 2015

Development Bank of Ethiopia Fleet Management System (Project)

- Managed fleet management system development with 7 - 9 team member size for customer project,
- Also Served as Product Owner,
- Used “MS Agile SW Solution 5.0”, Scrum Software Management Methodology,
- Used “MS Team Foundation Server (TFS 2010)” and “Sharepoint 2010” as Version Control, Issue Tracking, and Documentation Tools,
- Mapped Requirement with GPS Configuration and documented,
- Supervised GPS hardware configuration, installation, and HW - System integration.
- Prepared frequent and periodical reports and letters for internal and customer

SKILLS**SOFTWARE ENGINEERING****Analysis, Design, & Management:**

- Object Oriented Analysis and Design Methodology (**OOAD**),
- **UML 2.0 & BPMN 2** - Designing and Business Modeling Standards,
- **RESTFull** Web API-Service (HTTP+JSON) - Service Oriented Architecture
- **IEEE 1471** - Architecture Description Standards & Framework,
- **MS Solution Framework 5.0** - Agile SDLC Methodology,
- **Prince II** - Project Management.

Tools

- **Enterprise Architect**, **MS Office**, **Open Office**, **Google Docs**,
- **Archimate**
- **Jira**, **Slack**, **Teamsm & Sharepoint 2010** - Issues Tracking & Documentation.

SOFTWARE DEVELOPMENT**Programming Language & API**

- **HTML5**, **CSS3**, **Javascript**, **iQuery**, **Bootstrap**,
- **Java**, **Python 2.7 & 3+**, **C#**,

Framework

- **NodeJS-8+** (Express, KOA-2)
- **Flask** (Python Web Framework)
- **Java Web Development** (Servlet, JSP, and Spring)
- **ASP.NET MVC**
- **ASP.NET Core-2+, 3+** (MVC, Razor pages)
- **ASP.NET Entity Framework**
- **AngularJS**

IDE, Library & Tools

- **Rider**
- **MS Code 1.62+**
- **MS Visual Studio 2015+**
- **MS-Build & MS-Deploy**
- **Eclipse**

DevOps

- **GIT & Github- Distributed** Version Control Management
- **AWS CodeBuild**
- **Azure DevOps Development**
- **Gitlab, Jenkins (MS-Build & MS-Deploy)** - *Contineouse Integration (CI)*,
- **Team Foundation Server (MS-TFS 2010)** - *Centralized* Version Control Management ,
- **vSphere (esxi 6)**, **Oracle Virtualbox** - *Virtualization*

GIS DEVELOPMENT

- Leaflet, Openlayer, Google Map API (Client Side JavaScript API)
- QGIS, Arc View, PostGIS, OGC, GPS Device

WEB SERVER & DATABASE

- NGINX-1.13+, IIS-7+, Apache Tomcat-2+ (Web Servers),
- PostgreSQL/PostGIS/pgAdmin, MS-SQL Server, MongoDB, MySQL

PLATFORM (OPERATING SYSTEM & NETWORKING)

- Ubuntu 16.04 - 20.04 - Linux Distribution (Desktop & Headless Server)
- Windows 7, 8, 10+ - MS-Windows (Desktop OS)
- Windows Server 2008 r2, 2012+ (Server OS)
- LAN-WAN Network Access & Routing (TCP-IP Suites, CCNA, Socket Programming)

BUSINESS DOMAIN

- Transportation (Location based System)
- Geo Information System (GIS)
- Land Management (Cadastre)
- Accounting (ERP – Odoo)

EDUCATION

MSC in Cyber Security (In PROGRESS: (Only Research Proposal and Thesis)
Addis Abeba Institute of Technology (AAiT)

2021 - Present

BSC in Computer Science

Addis Abeba University (Science Faculty)

August, 2009

CERTIFICATION

Programming in HTML5 with JavaScript and CSS3 (480)

Microsoft Certified Professional - MCP

Dec, 2016