Birhanu Alemu

Senior Software Engineer

Indianapolis, IN - Email me on Indeed:

Willing to relocate: Anywhere

WORK EXPERIENCE

Software Engineer

ENET ICT SOLUTIONS   -   Addis, LA - August 2009 to January 2016

Analyzed user needs and software requirements to determine feasibility of project. Gathered and analyzed business
requirements from client and created project plans and technical specs. Developed System and use case designs
including class, sequence and deployment diagrams along with flow charts. Developed distributed enterprise web
applications through agile methodology. Wrote robust, scalable code with stringent testing and debugging. Prepared
technical design documents and implemented streamlined user interface and improved usability.
Software Programmer Selected Projects:
• Financial Crime Analysis System: Developed integrated software to enhance the capacity of the country's
preparedness to detect crime with a focus on money laundering. Analyzed user needs and software
requirements of the client. Developed project plans and technical specs. Designed database and the system's
Graphical User Interface. Led and mentored team members. The system includes data collection, data
evaluation and clean-up, Target link analysis and visualization, rule-based analysis, and document
management with full text search capability and intelligence report generation.
• Risk Management Analysis System (RMAS): Worked on developing risk analysis software focused on
simplifying the financial instruction's effort to track the link/structure among clients. Performed coding, research
and design. Researched data mining algorithms. Implemented system's data management component.
Developed database and data warehouse using Oracle 11g. Implemented Visualization component and Social
Network Analysis metrics Algorithms. Implemented text mining and Amharic Natural Language Processing.
• Technologies: Java EE, Hibernate, Spring, NetBeans IDE 8.1, Oracle 11g, Oracle SQL Developer, C#,
Microsoft
Visual Studio 2010, Microsoft SQL Server, Windows Server 2008, Win XP/7

Software Engineer

MRC-ET DIAGNOSTIC LABORATORY   -   Addis, LA - 2013 to 2014

Developed Lab System to manage patient records and test request in Molecular Diagnostic. The system contains a
database of staff, test request and result, personnel data of patients as well as their medical records. The software
enables users to find important information about medical status and past medical history of any patients quickly.
Performed coding and debugging. Integrated the system with HR and inventory system.
• Technologies: Hibernate, Spring, Star UML, JUnit Testing, Agile, MySQL HTML, Ajax, and JavaScript
CV

Software Engineer / Freelance

NEW ENGLISH PRIVATE SCHOOL   -   Addis Ababa - January 2010 to September 2012

Gathered and analyzed user requirements for a School Management System (SMS). Developed Requirement and
Analysis Document (RAD) and designed and implemented the Graphical user interfaces (UI) using Microsoft devExpress. Implemented Records and Profile Manager, Timetable Generator and Grade Manager Modules. Performed Unit Tests and developed User Acceptance Test (UAT).
• Technologies: Microsoft Visual Studio (C#), Microsoft Dev Express, Windows XP/7, Microsoft SQL Server, Access

Software Developer

INTRACOM ICT SOLUTION P.L.C.   -   Addis, LA - 2010 to 2011

Designed and developed numerous web-applications. Created layout and visual appearance of web application.
Tested application for functionality across different browsers at different resolutions. Conducted SEO.
• Developed application to raise awareness for companies and as a tool for communication and collaboration between stakeholders for the sharing of expertise, knowledge and resources to strengthen the network of donors, partners, and the general public in areas of humanitarian action, water, sanitation and hygiene (WaSH),
food and nutrition security, maternal and child health and climate change adaptation.
• Technologies: Java EE, Hibernate, Spring, Microsoft C#, Visual C++, PHP, DHTML, Flash, NetBeans IDE 7.1,
Tomcat, Java Script, ASP/C#, HTML, XML, AJAX, CSS, IIS, Joomla Content Management Tool, MS Access, Microsoft Visual Studio 2012, Microsoft Visio, JUnit Testing, State, Waterfall, Windows XP/7/8/10

Database Administrator

ETHIOPIAN MINE ACTION OFFICE   -   Addis Ababa - 2005 to 2009

BETHEL MEKANE YESUS SCHOOL, Addis Ababa, Ethiopia - Mathematics and IT Teacher

EDUCATION

Master of Science in Computer Science

Maharishi University of Management(In progress via distance education; expected completion 2018)   - Fairfield, IA

Postgraduate Diploma in Computer Science

Maharishi University of Management

SKILLS

Java EE (4 years), Javascript (3 years), Spring (3 years), Hibernate (3 years), AngularJS (1 year), SDLC (7 years), HTML 5 (4 years), Gulp (1 year), Grunt (1 year), Node (1 year), Servlet (3 years), AJAX (2 years), Java (5 years)

LINKS

http://www.linkedin.com/in/birhanu2gebresenbet

CERTIFICATIONS/LICENSES

Oracle Java Certified programmer

Front-End JavaScript Frameworks: AngularJS
November 2016 to Present
Front-End JavaScript Frameworks: AngularJS by The Hong Kong University of Science and Technology on
Coursera. Certificate earned on November 16, 2016".