Hany Sayed Ahmed

Senior Software Engineer | Professional Scrum Master

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PROFESSIONAL SUMMARY

Experienced Senior Software Engineer with over 10 years in software development, specializing in **Ruby on Rails,. NET Core**, **Angular**, **React**, **Vue.js**, **Node.js**, **PostgreSQL**, and **MySQL**. I bring expertise in building scalable, efficient, and maintainable full-stack applications, with a strong focus on Agile methodologies and continuous improvement. A Certified **Scrum Master** with a proven ability to lead cross-functional teams and deliver high-quality solutions under tight deadlines.

Key Strengths:

- **Advanced Problem-Solving:** Strong analytical skills with experience in tackling complex technical challenges, optimizing code for performance, and finding innovative solutions to real-world problems.

- **Full-Stack Expertise**: Advanced proficiency in backend (Ruby on Rails, Django,.NET Core) and frontend (Angular, React.js, Vue.js) technologies.

- **Agile Leadership**: Certified Scrum Master with hands-on experience running Scrum ceremonies, ensuring high productivity, and delivering on business objectives.

- **Database Optimization**: Extensive experience designing, optimizing, and managing database architectures using **PostgreSQL**, **MySQL**, and **MongoDB**.

- **Problem-Solving & Innovation**: Strong focus on problem-solving, delivering clean, scalable code with a continuous improvement mindset.

- **Cross-functional Collaboration**: Effective communicator, collaborating with stakeholders, developers, and other teams to deliver business-critical solutions.

- **Solve +800 Problem @** [Codewars](#) | [Hackerrank](#) | [Leetcode](#) | [Github](#)

EDUCATION

Awarded Scholarship 9-Month Diploma, Open Source Application Development Department

INFORMATION TECHNOLOGY Institution
Year: 2015 - 2016

BSc in Statistics & Computer Science

Ain Shams University, Faculty of science
Year: 2007 - 2013

TECHNICAL SKILLS

- **Languages:** Ruby, Python, Dart, C#, C++, Java, Shell Script, JavaScript, TypeScript, PHP, Perl
- **Frameworks:** Ruby on Rails, Angular (8, 12), React.js, Vue.js, Node.js, Django, .NET Core, Zend, Laravel, Express, Spring Boot
- **Mobile Development:** React Native, Ionic, Flutter
- **Database Management:** PostgreSQL, MySQL, MongoDB, SQL Server
- **Version Control & SDLC:** Git, SVN, JIRA, Trello, Agile Methodologies

CERTIFICATIONS

Scrum.org

Professional Scrum Master, PSM II

AWS

AWS Billing and Cost Management

Coursera

Java Programming & Problem Solving, Front-End Web UI Frameworks, Algorithms Design and Analysis, HTML, CSS, and JavaScript, Rails with active record, Ruby meta programming

Udemy

Mastering System Design, React native, React Redux advanced

ALX

Data Science Certification

PROFESSIONAL EXPERIENCE

Senior Software Engineer (Remotely)

Andela - Kinship (Contract), US – April 2022 – Present

- Tackled complex technical issues in **PostgreSQL** and **Ruby on Rails**, optimizing queries to improve system performance by **40%**.
- Led development of a scalable application infrastructure using **Angular Dart** and **React Native**, ensuring optimal user experience.
- Applied problem-solving skills to debug and resolve issues with deployment pipelines, improving delivery timelines and minimizing downtimes.
- Collaborated with cross-functional teams to design a modular application architecture, reducing future feature development time by **30%**.
- Design, implement, and optimize database structures and queries using PostgreSQL for efficient data management.
- Integrated external APIs, achieving **99.9% uptime** in data exchange processes.

Senior Software Engineer (Remote)

Andela - Litmus (Contract), UK – March 2021 – April 2022

- Designed and enforced solutions to improve **Vue.js**, **Ember.js,** and **Ruby on Rails** application performance, reducing load times by **25%**.
- Led team efforts in developing new features and enhancing application robustness by solving complex integration issues.
- Utilized **problem-solving** techniques to overcome integration challenges with external APIs, ensuring seamless data exchange.
- Developed custom tools to automate common tasks, reducing manual errors and improving team efficiency by **30%**.
- Debugged and resolved critical issues in deployment pipelines, improving delivery timelines by **15%** and reducing downtime by **20%**.

Senior Software Engineer

IdearRating, Egypt – March 2018 – March 2021

- Developed high-impact features with **Node.js** , **Angular,** and .**Net Core,** solving performance bottlenecks and scaling database queries for over 500,000 active users.
- Applied a data-driven architecture with **MongoDB**, **MySQL**, and **SQL Server**, optimizing database access time and reducing data retrieval costs by **20%**.
- I worked closely with stakeholders to translate business requirements into technical solutions, effectively solving user experience challenges.
- Designed and optimized **MongoDB** database structures and queries, leading to **50% faster query performance**.

Team Leader (Part-Time)

VOOOM, Egypt – March 2019 – October 2020

- Spearheaded a team to develop new features, reducing bug counts by **40%** through code reviews and collaborative debugging sessions.
- Developed reusable code libraries and APIs in **Node.js**, solving issues related to data inconsistency across microservices.
- Improved internal processes, accelerating feature delivery cycles by **20%**.
- Mentored junior developers, increasing their task completion rates by **35%** within six months.

Instructor

ITshare & Information Technology Institute, Egypt – Jun 2017 – Present

- Developed and delivered advanced problem-solving exercises in algorithms and system design, achieving **95% satisfaction scores** from students.
- Mentored students in real-world scenarios, leading to a **50% improvement** in their ability to solve complex challenges.

Senior Full-stack Web Developer

Nabda Care, Egypt – Jun 2016 – March 2018

- Led the design and development of a healthcare platform using **Ruby on Rails** and **Ember.js**, increasing patient data processing efficiency by **45%**.
- Optimized database queries, improving the speed of medical report generation by 50%.
- Collaborated with stakeholders to build a scheduling system, improving appointment booking accuracy by **25%**.
- Implemented real-time notifications via **Action Cable**, reducing response times for critical patient alerts by **30%**.

PHP Developer

IT Solution, Egypt – Jul 2013 – Sept 2015

- Built **Zend Framework**, **WordPress**, and **Drupal** applications, delivering projects ahead of deadlines by an average of **10%**.
- Designed intuitive UI/UX for web applications, boosting user engagement by **15%**

ACTIVITIES & INTERESTS

- **Volunteer**: blood donor, math teacher, software trainer.
- **Interests**: chess, MMA, running, gamer, horse riding, calisthenics.

PROJECTS

Climate Edge - ESG&

A comprehensive emissions management solution enables your business to accurately measure, monitor, and reduce its carbon footprint. With real-time insights and intuitive dashboards, you can easily identify areas for improvement and track progress towards your sustainability goals.

Provides accurate calculations of your emissions based on industry-specific and internationally recognized methodologies,Provides detailed analysis of your emissions data, allowing you to identify areas for improvement and make informed decisions. Provides customizable emissions reports that meet disclosure requirements and stakeholder expectations

Technology Stack

- **Backend:** Ruby on Rails
- **Frontend:** Angular 13
- **Database:** Postgresql
- **Server:** Heroku

TheKin - Kinship

Mobile App designed to make your pet parenting life actually easier with certified vets who will answer any questions related to behavior, nutrition, and health. You can talk with them 24/7 over chat, call, or email.

Technology Stack

- **Mobile development:** React native
- **Backend:** Ruby on Rails
- **Frontend:** AngularDart as web view for AI chat
- **Database:** Postgresql
- **Services:** Airtable, Twilio
- **Server:** Heroku

AI Web Widget - Kinship

The Web App Widget makes your pet parenting life actually easier with certified vets who will answer any questions related to behavior, nutrition, and health. You can talk with them 24/7 over chat, call, or email.

Powered by a powerful AI chat that can diagnose pet symptoms and redirect the pet parent with an expert for his case with a full documented report to help the expert an pet parent, AI can provide the pet parent with recommended nutrition about his pet and can also support the nearest hospital if the pet's condition is urgent.

The widget works as an independent widget, so it can be easily integrated with other web applications.

Technology Stack

- **Backend:** Ruby on Rails
- **Frontend:** AngularDart
- **Database:** Postgresql
- **Services:** Airtable, Twilio
- **Server:** Heroku

EYE Talk - Graduation Project (Ain Shams University)

Mobile app for optical character recognition when user take an image and the image has text, the application pronounces it so it helps the blind people to know what they capture and also helps other people to know new words, All documentation of the application has been published; you can check more through this link

Technology Stack

- **Mobile:** Android
- **Programming Language:** C, C++, Matlab

Email Marketing Platform - Litmus

Litmus empowers marketers to send great emails every time to create a world where everyone has meaningful and relevant experiences with their chosen brands.

Litmus is an all-in-one email marketing solution that helps you optimize and personalize every email to maximize your ROI and create exceptional brand experiences for every subscriber.

Empowers your entire team to Work seamlessly across your martech stack with email service provider and productivity integrations. Cut email development time in half with reusable templates, drag-and-drop email creation, and codeless editing that keeps emails on-brand, Cut through the inbox clutter with engaging, personalized emails

Tap into engagement data and analytics that reveal what's working and what isn't, so you can improve your email strategy with every send. Marketers who utilize Litmus Email Analytics see 16% more ROI than they would with ESPs alone.

Get peace of mind when it comes to security. Litmus is SOC 2 certified and offers enterprise-grade security features such as single sign-on and two-factor authentication.

Technology Stack

- **Backend:** Ruby on Rails
- **Frontend:** VueJs
- **Database:** MySQL
- **Server:** AWS

Equities - IdealRating Co.

A unique research methodology to accurately analyze companies business activities and revenue breakdown by mixing the manual research approach and the automated classification techniques

Technology Stack

- **Backend:** .Net Core 3, NodeJs
- **Frontend:** Angular 6
- **Database:** SQL Server, MongoDB
- **Server:** AWS

Sukuk - IdealRating Co.

An engine that allows Shariah auditors to import their custom institutional Shariah guidelines and screen the global universe of sukuk against and against Market standards

Technology Stack

- **Backend:** .Net Core 3, NodeJs
- **Frontend:** Angular 6
- **Database:** SQL Server, MongoDB
- **Server:** AWS

Index - IdealRating Co.

An engine that provides the companies/entrepreneurs with adequate consulting and support expertise in a timely and continuous way, which has become to corporations a conditioning in order to apply with more assertiveness the proper strategy according to their needs.

All financial markets present continuous and rapid changes, demanding companies efficient answers that allow them to adequate strategies to changing market demands.

Technology Stack

- **Frontend Backend:** NodeJs
- **Database:** SQL Server
- **Server:** AWS

Live4 - IdealRating Co.

The web-based application provides ESG & Responsible Investment Solutions and Islamic Finance Solutions and offers the largest universe globally for Equities, Fixed Income, and REITs along with custom-built indexes and purification services. The subscription-based services enable users to access a comprehensive range of data analyzed by our experienced research team and based on a proprietary methodology complemented with an intuitive state-of-the-art interface and powerful search capabilities with timely coverage.

Technology Stack

- **Backend:** .Net Core 3, NodeJs
- **Frontend:** Angular 6
- **Database:** SQL Server, MongoDB
- **Server:** AWS

Clinica - Freelance

A web-based application like ERB system provides a management system for clinics, such as user can book an appointment, doctor can see his calendar, patient PMR through all system so doctor can know what the patient's history is and his treatment, and the clinic can manage its own stock

Technology Stack

- **Backend:** Ruby on Rails, NodeJs
- **Frontend:** Angular 6
- **Database:** MYSQL
- **Server:** heroku

Balsamee - Nabda Care

Web-based application for Patient and Doctors, Manage Patient Medical Report, Conference call between patient and doctors, Book Nearby Doctor

Technology Stack

- **Backend:** Ruby on Rails, NodeJs
- **Frontend:** Ember JS
- **Database:** MYSQL, MongoDB
- **Server:** AWS

InlightMe

An android application based on user interest, such as the user can see nearby entities based on his own location and see its reviews and comments, and based on the result, the user can make a decision on what he needs, indoor navigation for location with augmented reality through his mobile camera. Vendors can get daily reports about check-in user to their stores and manage the marketing campaigns based on crowded days, Point of sale system for every vendor so he could know what exactly the customer is interested in

Technology Stack

- **Backend:** Ruby on Rails, NodeJs
- **Frontend:** EmberJs
- **Mobile:** Android
- **Database:** MYSQL, MongoDB
- **Services:** Unity
- **Server:** AWS

School Management - Freelance

LMS for managing school for class room , students, teachers and calculating degree for each student, Manage time for employees, Online course

Technology Stack

- **Backend:** Java Servlet & JSP
- **Frontend:** AngularJs
- **Database:** MYSQL
- **Server:** AWS

Freelance Projects - IT Solutions

- **Z-Overseas:** Management system for security, money transportation , and mining
- **City Water:** Management system for Desalination plants and sewage treatment, with an alert system using arduino chips, the employees in the company can manage when they will handle the chemical reactions in water
- **Sahara Building System:** Management system for import and export

Technology Stack

- **Backend:** Ruby on Rails
- **Frontend:** EmberJs
- **Database:** MYSQL
- **Server:** heroku

Graduation Projects - ITI

- **Cafeteria Web Application and Mobile app:** using Zend framework, Bootstrap, MySQL, and Titanium to manage clients order requests
- **Social media Website:** Using Ruby on Rails,
- **Client-Server chatting room application:** using Java,
- **Duck Planet Browser Game:** Using Native JS, check github
- **Insider search engine:** for search (product, places, and stores) in social media APIs like Twitter and foursquare and see the tweets and posts about those places, then we make a chart for the user about the entity he searches for to see if it is positive, negative, or natural.

Own Projects

- **Survival:** using Ruby on Rails and react native, Mobile application so user can post anonymous posts about their problem and get interaction for other users and therapy doctors, The user can chat with others anonymously

- **Pet Care:** using Ruby on Rails and EmberJs, an e-commerce app for pets so user can buy pet supplies, also, the application provides an alert system for Mating season to each pet so user can find other pet partner if needed; an alert system for adaptation; Provides shelters for pets and a social media platform for pets

- **Blood Volunteer:** using Ruby on Rails and React Native, during the Corona pandemic I created a mobile application based on location service. The user can check the nearest user to have the same blood type he is searching for.

- **Shirt.io:** using Ruby on Rails and angular 4, web-based application for user so they can pick whatever design on the basic shirt they want and see on a built-in editor, designer can post their own design and get commission each time the user buy it

- **Trader:** using Ruby on Rails and Angular 4, a web-based application for trading unused items between each other.

- **Riddler:** using Ruby on Rails and react native, Mobile application for gamification so user can get puzzle or riddle and if he solve it during a static time he gain points and can challenge other friends