FADY MASSOUD

California | Fadymassoud.com

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Authorized to work in the USA (Green Card)

Lead & Senior Software Engineer | Solution Architect with **16+ years of expertise** delivering **scalable, high-performance solutions** in **FinTech, Banking, and E-Learning**. Specialized in **.NET**, **Azure cloud architectures**, **enterprise modernization**, and **secure API development**. Proven track record of **leading teams**, designing **high-availability architectures**, and driving **technology transformations** for **enterprise clients**. Adept at **mentoring developers**, optimizing **system performance**, and ensuring **best practices in secure application development**.

CORE COMPETENCIES

- **Software Engineering:** C#, .NET Framework/Core, ASP.NET, MVC, RESTful APIs, JavaScript, TypeScript, Angular, React, Bootstrap, jQuery.
- **Database Management:** MS-SQL, NoSQL (MongoDB), MySQL, Oracle, Query Optimization, Data Caching
- **Development Tools:** Visual Studio, IntelliJ, Git, Jira, Bitbucket, Confluence, SonarQube, Team Foundation Server.
- **Cloud & Enterprise Development:** Azure, .NET Core, Spring Cloud, IBM Cloud.
- **Security & Compliance:** Veracode, OWASP, PCI DSS, Secure API Development
- **DevOps & CI/CD:** GitHub Actions, Azure DevOps, Kubernetes, CI/CD Pipelines, Docker, Harness, Bamboo.
  Software Design & Architecture: Domain-Driven Design (DDD), CQRS, SOLID Principles, Design Patterns, Microservices, Event-Driven Architecture, Serverless Computing.
- **Leadership & Methodologies:** Agile, Project Management, Cross-Functional Team Collaboration, Code Reviews.

EXPERIENCE

LEAD SOFTWARE ENGINEER | SOLUTION ARCHITECT
Paysafe Group | Irvine, CA | Jul 2017 – Current

- **Led the architecture and development of scalable, secure enterprise financial solutions.**
- **Refactored a monolithic system into modular microservices**, leveraging factory design patterns and dependency injection (DI), reducing maintenance overhead by 30%.
- **Developed .NET Core services with TLS 1.2, optimizing system reliability and security.**
- **Integrated external APIs**, including Fiserv Chargeback, and implemented Kafka-based producer/consumer applications.
- **Managed bank onboarding, TSYS/Fiserv re-certifications, audits, and ensured PCI compliance.**
- **Improved testing and debugging processes, cutting critical production issues by 50%.**
- **Optimized system performance and mitigated vulnerabilities by 30% through Veracode scanning.**
- **Designed and implemented Two-Factor Authentication (2FA) for enhanced security and user verification.**
- **Guided cross-functional teams (QA, DevOps, Product) in Agile development, improving collaboration and delivery timelines.**
- **Conducted code reviews**, architectural decisions, and mentoring to enhance technical execution and best practices.
- **Collaborated with stakeholders** to design workflow solutions that improved operational efficiency.

SENIOR SOFTWARE ENGINEER
CraneMorley | Long beach, CA | Jun 2014 – Jun 2017

- **Developed and launched a Content Management System (CMS) and Learning Management System (LMS)** tailored to diverse client needs, increasing customer satisfaction by **40%**.
- **Refactored legacy applications**, increasing system performance by **85%** through **SQL optimization**.
- **Automated data feeds** using **SQL Agents** and **Windows Services**, streamlining operations.

SENIOR SOFTWARE ENGINEER (PART-TIME)
The Dependable Companies | Los Angeles, CA | Jun 2016 – Dec 2016

- **Refactored MS Dynamics & DotNetNuke portals**, enhancing functionality and user experience.
- **Designed and implemented a custom Email Notification System** with **HTML templates**.
- **Optimized SQL queries**, reducing execution time by **40%** and improving overall system responsiveness.

SOFTWARE ENGINEER
Freelancer | California | Feb 2012 – May 2014

- Delivered web and mobile applications for .Net-based platforms via **Upwork**.
- Created **client-facing apps** for businesses likes (**LearnToWriteNow**, **JohnSamaanCPA**, **MKLuxuryLimo**, **ETPegasusEnterprises**), focusing on functionality, user experience and responsive design.
- **Integrated third-party APIs**, optimized performance, and ensured **100% customer satisfaction**.
- **Collaborated with clients** to design custom software solutions that met business needs and ensured **100% customer satisfaction.**

IT ASSISTANT
Credit Agricole Bank | Cairo, Egypt | Dec 2009 – Dec 2011

- Analyzed and validated data to support compliance users, creating **technical specifications** and executing **UAT plans**.
- Supported **payment system enhancements**, contributing to improved business process efficiency.

.NET SOFTWARE ENGINEER
Travel Solutions Egypt | Cairo, Egypt | OCT 2008 – NOV 2009

- Developed desktop and web tools improving **user interfaces** and **customer experience**.
- Conducted comprehensive **testing, debugging**, reducing errors & enhancing **system stability**.
- Provided mentoring to junior developers, ensuring adherence to best coding practices and standards.

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
Helwan University | Cairo, Egypt | 2004 – 2008

CERTIFICATIONS

- Open Hack: App Modernization with NoSQL
- IBM Center Visual C#.NET
- Microsoft Certified: Azure Fundamentals

References are available upon request.