Ahmed Abdel-Meguid

Portfolio: www.ahmedam.com

Work Experience

Guaranteed Rate – Principal Software Engineer

As the Principal Engineer of the Product Engineering organization, I take ownership of development and architecture of many enterprise-wide apps and microservices. At my current position, I am:

- Writing multitenant, enterprise-scoped applications with configurable vendor integrations, with or without support of a team
- Directing organizational architecture for new applications and services within the Product Engineering organization geared towards reducing enterprise-wide complexity and cost
- Established the enterprise architecture "RFC" (Request for comments) system that allowed enterprise standards to be discussed and reviewed by all engineers in the enterprise before adoption
- Managing technical interactions between external vendors, development teams, and stakeholders

Rocket Mortgage – Software Engineer

First to draw out the full architecture diagram of the Rocket Pro services, which exposed numerous issues and led to a streamlining of our systems.

Integrated legacy systems into Rocket Pro and vice versa.

Served as Tech Lead for early projects that laid the foundation for easy future additions.

Ideated, specced, wrote, tested, deployed, and integrated reusable libraries into downstream systems. Mentored senior engineers in their use and modification.

Prototyped, refined, and finalized the CI/CD pipeline and server integrations for Rocket Professional. Provided extensive code review feedback and mentoring during the entire development process. Maintained extensive documentation, including but not limited to IDE setup processes for legacy systems, deployments, and major code updates.

Maintained an exceptionally high standard of communicating complex engineering information and processing it into easy-to-understand and non-intimidating bites for non-technical team members.

Clear Launch – Solution Architect

Developing mobile, web, and eCommerce applications for clients including:

Tiff's Treats, Build-A-Sign, Precision Autonomy, WellAware, Broomly

Translating customer/project requirements into discrete programming tasks

Supporting new projects by developing prototypes, mockups, and wireframes

Tech & languages included: C#, Unity, Azure, ASP.NET, MSSQL, Angular, MongoDB, Node.js

Redbird Flight Simulations – Senior Software Engineer

1/2016 - 7/2017

8/2017 - 6/2018

Full Stack Development for Flight Simulator and Aircraft products

Product Installer Development using Advanced Installer

Continuous Integration Setup and Administration using Jenkins, GitLab, and AWS

Architected Projects at Redbird Flight Simulations:

Satloc/AgNav Crop Duster Light Bars (C#, C++/C, .NET, GDI+) – Crop duster lightbar app.

Qualification Test Guide (Elixir, Phoenix, C#, .NET, PostgreSQL, SimConnect) – EASA App.

Guided Independent Flight Training Service (C#, .NET, SimConnect) – Mission grading service.

Navigator (Elixir, Phoenix, C#, .NET, PostgreSQL, Sqlite, SimConnect) – Flight Sim Interface.

Sidekick (Java, Python, BLE, Phidgets) – Flight recorder.

Fair Trade Technologies – Chief Engineer

7/2015 – Present

Providing all in-house software development and consultation services

12/2021 – Present

12/2018 - 11/2021

Ahmed Abdel-Meguid

Portfolio: www.ahmedam.com

Work Experience Cont'd.	
EWI Worldwide – Technology Developer	6/2013 – 6/2015
Managing Development department after departure of previous Technical Director	
Notable Projects at EWI:	
AT&T - Connected Car (Unity Game, C#, .NET, WPF, Javascript, Azure)	
AT&T - Vehicle Lookup Tool (C#, .NET, Objective C, Xamarin, iOS, Android, Azure)	
Pavilion Park - Kids Table (C#, .NET, WPF, Azure)	
Kia - Driving Game (C#, .NET, WPF, JavaScript, Azure)	
Internal Drive Tech Camps – Multiple Positions	7/2012 – 3/2013
Acted as Curriculum Developer for the company's Game Academy division	
Acted as Lead Instructor for a team of 6 game development instructors at the Harvard Game Academy	
Blackstone Academy Charter School – Contract Teacher	3/2012 – 6/2012
Taught Chemistry, Physics, Biology, and Geology to students using improvised classroom games	
38 Studios: Kingdoms of Amalur – Game Designer	9/2010 – 2/2012
Product Owner for the BigWorld Server Scripting System and the UDK Client-Side Events System	
Prototyped experimental game systems and scripted content for the game's Vertical Slice	
BioWare: Star Wars: The Old Republic – Game Designer	7/2009 - 7/2010
Scripted multiplayer content for a story-driven, Star Wars-based, Massively Multiplayer Online Game	
Worked with engineering to prototype and revise features to the Companion Character System	
Held workshops with internal and external design teams to teach advanced game systems	
Presentations & Speeches	
Massachusetts Institute of Technology	
Causing Fear and Anxiety through Sound Design – MIT Museum	5/2011
Making Games with Quickness and Awesomeness – MIT Game Lab	4/2012
Education	
Master of Interactive Technology – Southern Methodist University	5/2009
First SMU Guildhall graduate to publish research thesis	
Created methodology to study emotional responses created by games	
Publication: Toprac, P. and Abdel-Meguid, A., Causing Fear and Anxiety through Sound Design in Video Games.	
In M. Grimshaw (Ed.), Game Sound Technology and Player Interaction: Concepts and Development	nts
Bachelor of Science in Business Management - Illinois State University	12/2007
Skills	

<u>Skills</u>

Languages & Frameworks: C#, C++/C, .NET, AWS Infrastructure, Unity, Node.js, MongoDB, GDI+, Unreal Development Kit, Unreal Engine, Elixir, Erlang, Phoenix, COM, MVVM, MVC, PostgreSQL, MSSql, Sqlite, JavaScript, Java, Python, HTML/CSS, Xamarin, WPF, Lua, SourceSDK, HeroEngine, Radiant, Djinn

Other: Amazon Web Services, Microsoft Azure, Windows Installers, Flight Simulator Systems