

Reza Ebrahimi

Technical Consultant

I am a certified AWS Solutions Architect and Senior Full-Stack Developer with 8 years of industry experience in Full Stack Development and Cloud Engineering. I specialize in designing and deploying scalable, robust cloud architectures on AWS, integrating AI-powered solutions using LangChain and LLMs. My expertise spans across PHP, Laravel, TypeScript, Node.js, Express.js, and React, with a strong emphasis on CI/CD pipelines, TDD, and database management. I have a proven track record in delivering high-quality, enterprise-grade solutions, continuously seeking opportunities to leverage cutting-edge technologies such as AI and machine learning to drive innovation. I am passionate about exploring new frontiers in AI, contributing to impactful projects, and enabling businesses to transform their operations through intelligent, scalable systems.

EXPERIENCE

Melbourne, VIC

Freelance Technical Consultant

Feb 2024 - present

- **Engineered and deployed complex, scalable cloud architectures** on AWS, leveraging advanced services such as AWS Lambda, API Gateway, ECS, ECR, Aurora, Redshift, Kinesis, and CloudFormation. Spearheaded the integration of AI-powered agents using LangChain to enhance automation and streamline operational workflows, focusing on enterprise-grade scalability.
- **Architected sophisticated CI/CD pipelines** using AWS CodePipeline, CodeBuild, CodeDeploy, and CodeStar, with a focus on automated testing, including TDD practices and monitoring via AWS CloudWatch and X-Ray. This approach increased deployment frequency and ensured robustness in mission-critical systems handling AI and machine learning tasks.
- **Delivered high-quality full-stack solutions** using TypeScript, Node.js, Express.js, Next.js, React, Python, seamlessly deploying via microservices with AWS Fargate and Docker.
- **Designed and managed complex database architectures** with AWS RDS, DynamoDB, implementing automated backups, disaster recovery plans, and performance tuning for data integrity and high availability.
- **AI-Powered Support System for Enterprise Clients**
Developed and deployed an AI-powered customer support system using LangChain and LLMs integrated into the cloud architecture. The system utilized LangChain's agent capabilities to provide real-time natural language responses to client queries, automating repetitive tasks and improving response accuracy. Designed with TDD, ensuring comprehensive test coverage for APIs and AI agents. The system scaled efficiently with AWS Lambda and ECS to handle thousands of simultaneous interactions.

Melbourne, VIC

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[Reza Ebrahimi - Full-Stack](#)

[Developer | LinkedIn](#)

[Github](#)

SKILLS

Object-Oriented Programming

RESTful WebServices

Laravel

PHP

Laravel

JavaScript

TypeScript

React.js

Next.js

Express.js

Jest

Git/Gitflow

Amazon Web Services (AWS)

(CI/CD)

Terraform

RDS

Fargate

Cognito

SES

S3/Glacier

Codepipeline, Codebuild, CodeDeploy

Api-gateway, Cloudformation,

Lambda functions

Serverless, EC2, ECS,

ECR, Cloudwatch, S3

DynamoDB

Test Automation

TDD

Agile Scrum

Jira

Python

Linux

MySQL

JQuery

Blade

Behavioral testing

Langchain

Symplicit, Melbourne, VIC
Technical Consultant
(contract)

Jun 2023 – Feb 2024

- Cloud solution design and implementation, and architecture on Amazon Web Services such as Cognito, Lambda, ECS, ECR, Api gateway, cloudformation and other storage, network, and compute resources.
- CI/CD pipeline design and setup using AWS Codepipeline, CodeDeploy and github
- Software solution design and implementation
- Development using Node.js, Express.js for backend as lambda function, Next.js, React for frontend through AWS ECS task definitions and deployment dockerized in AWS ECR, all done in Typescript.
- Engineered a robust dependency injection framework in Express.js, enhancing modularity and maintainability through the strategic use of service utilities and design patterns.
- Management and administration of MySQL databases in aws RDS.
- Agile Scrum delivery
- Comprehensive documenting of all tasks and solutions
- Comprehensive testing of all backend and frontend using Jest.
- Resumable File upload and management using pre signed URLs and S3.
- Managed AWS infrastructure with Terraform, ensuring scalability and reliability.

Cengage, Melbourne, VIC
Senior Developer
(contract)

Sep 2022 – May 2023

- Developed 10 new features, resolved 25 bugs, and improved ExamPlus (<https://examplus.cengage.com/#/landing>) user experience by 50%.
- Implemented Docker containers containing Laravel code for business logic, MySQL database, and Typescript code for generating PDF exports
- Optimized Laravel code using performance-tuning techniques such as caching, database optimization, and query optimization, reducing API response time by 90% for some endpoints.
- Restructured database tables to enhance performance and scalability, leading to a 70% reduction in query execution time.
- Employed TDD to ensure code quality, reducing the number of post-deployment bugs by 30% and improving long-term maintainability.
- Employed Agile Scrum methodology with regular sprints, daily meetings, planning, refinement sessions, and sprint demos, delivering 12 iterations within the project timeline and maintaining a 95% sprint completion rate.
- Conducted 25 code reviews for third-party company team members to ensure adherence to best practices, code quality, and maintainability, which led to a 30% increase in overall code quality.
- Optimized React front-end applications and added 5 new features, improving user engagement by 60%.

EDUCATION

AUT
(Tehran Polytechnique)

Applied Science (B.A.Sc.),
Information Technology
2013 – 2016

Tehran, Iran

Ranked as one of Iran's top engineering schools, Amirkabir University of Technology is recognized for its rigorous computer science program, positioning itself as a leader in technical education within Iran and holding a commendable standing in global academic circles (ranked #375 in QS World University Rankings 2024). My academic journey here laid the foundational stones of my technical expertise and fostered a lifelong enthusiasm for innovation and learning in technology.

- Improved the CI/CD pipeline by creating and optimizing integration and unit testing, which resulted in a 50% reduction in build times and a 25% increase in deployment frequency, leading to a 20% improvement in overall development efficiency using Terraform.
- Developed a scalable API using AWS Lambda and API Gateway to improve the performance and scalability of backend services.

Cublux, Melbourne, VIC

Full Stack Developer (contract)

Dec 2021 – Aug 2022

- Designed and developed custom cabinetry ordering online platform (<https://cabinetworkx.com.au>) utilizing Laravel and Vue.js on AWS,
- Developed an e-commerce platform that processed over \$1 million in sales in its first year
- Utilized SOLID and modular programming principles Redis (ElastiCache), and S3 bucket for storage, leading to a 40% increase in server uptime and a 20% reduction in API response time.
- Constructed CI/CD and automated testing pipelines, employing TDD, resulting in a 50% reduction in bug reports and a 70% increase in deployment frequency.
- Automated infrastructure management using Terraform, significantly reducing operational overhead and improving infrastructure as code practices.
- Deployed the application on EC2 instances, producing a 30% reduction in server costs.
- Employed Agile Scrum methodology with regular sprints and daily meetings, delivering 18 iterations within the project timeline and maintaining a 95% sprint completion rate.
- Collaborated with product managers and stakeholders to identify customer needs and design solutions, provoking a 60% increase in client satisfaction.
- Managed application data using DynamoDB and MySQL database in a hybrid architecture to enhance data retrieval times and application scalability.

Pomechain, Dubai, UAE

Full Stack Developer (contract)

Jan 2021 – Dec 2021

- Developed new features, and refactored a shopping web platform (<https://jomlahbazar.com/>) using Laravel, Blade, and jQuery on AWS, leading to a 40% increase in user engagement and a 30% reduction in bounce rate.
- Added a multilingual feature to the website, allowing all parts of the website to be translated into Arabic and created a translation dashboard to manage translations, which led to a 50% increase in consumer engagement from Arabic-speaking countries.
- Built a third-party shipment service using Google Maps and Pusher.

- Used a MySQL database (Aurora) and Redis (ElastiCache) and S3 bucket for efficient data storage and retrieval, ending in a 50% increase in server uptime and a 40% reduction in API response time.
- Conducted automated testing and employed Agile Scrum methodology for project management, delivering 20 iterations within the project timeline and maintaining a 90% sprint completion rate.
- Designed and implemented a scalable, serverless architecture using AWS Lambda and API Gateway for handling complex e-commerce transactions and data processing.
- Leveraged DynamoDB for its scalable and flexible NoSQL capabilities to manage dynamic content and user profiles, facilitating rapid scaling and data retrieval for a multilingual e-commerce platform.
- Optimized a MySQL database to improve query performance by 75%, reducing page load times by 2 seconds, leading to a 35% increase in page speed and a 20% increase in user satisfaction.

VASTview, Melbourne, VIC

Developer (contract)

Dec 2019 - Jan 2021

- Developed a cryptocurrency exchange and portfolio digital platform on AWS using Laravel and React.js.
- Utilised SOLID and Modular programming principles employed a MySQL database (Aurora), and optimized Redis (ElastiCache) to achieve a 50% reduction in response time for some endpoints.
- Managed AWS infrastructure using Terraform to streamline deployment processes and ensure consistent environments across development stages.
- Followed Agile Scrum methodology and RESTful API standards to ensure efficient project management and delivery.
- Created automated tests, reducing code review time by 50% and increasing code quality, which resulted in 90% fewer bugs reported by users.
- Leveraged AWS Lambda and API Gateway for developing and deploying microservices-based applications, focusing on high availability and scalability.
- Deployed the application using a CI/CD pipeline, ensuring smooth and efficient delivery of new features and bug fixes.

IMBCo, Tehran, Iran

Junior Developer (full-time)

Dec 2017 - Dec 2019

- Refactored and updated the Tik8 (<http://tik8.com/>) product from a legacy CakePHP to a modern Laravel using microservices and an action domain responder architecture.
- Integrated a cinema ticket-selling system from a third-party service to Tik8, causing a 40% increase in ticket sales.
- Built OAuth authentication with Laravel Passport, triggering a 60%

decrease in login-related issues.

- Conducted unit tests with PHPUnit and behavioral tests with Behat for quality assurance, which yielded a 70% reduction in bugs.
- Applied the Agile Scrum methodology for efficient project management, delivering 20 sprints on time and within budget.
- Developed a microservices architecture using Laravel and Docker that improved scalability, reduced downtime by 80%.
- Followed an Agile scrum methodology to deliver high-quality code through numerous iterations, producing a 90% satisfaction rate from users.
- Collaborated with the frontend team to add new features and optimized the React application ending in a 20% reduction in page load times..
- Designed and constructed a CI/CD pipeline using Jenkins, resulting in a 40% reduction in deployment time.

Yara, Tehran, Iran

Junior Developer (full-time)

Aug 2016 - Dec 2017

- Designed and developed the Advertising Platform named Tapligh (<https://tapligh.com>) with a focus on server-side using Laravel and Lumens, which achieved a 30% increase in user engagement and 20% increase in revenue due to enhanced platform usability and scalability.
- Built a RESTful API for SDKs and Blade pages for users and support panels.
- Employed the repository pattern for the MySQL database to ensure robustness and optimal performance, resulting in a 60% reduction in database response time.
- Utilized Redis as a cache to improve response time and minimize the number of database calls, which reduced server response time by 75%.
- Conducted thorough testing using PHPUnit that improved code quality by 40% and reduced the bug count by 50%.
- Followed Agile Scrum methodology for efficient and collaborative project management that ensured timely delivery and increased team efficiency by 30%.
- Designed and implemented an advertising management system in Telegram using Laravel and Telegram bot API.

CERTIFICATES

1. **AWS Certified Solutions Architect**
 - Issued: Jun 2024 | Credential ID: e6df2be1-a15a-4a6f-98be-90adab8e5cec
 - [Show credential](#)
2. **Machine Learning with Python: from Linear Models to Deep Learning (MITx)**
 - Issued: Sep 2019 | Credential ID: f53c2c63d16c4222ac02731e997595ad
 - [Show credential](#)
3. **Probability - The Science of Uncertainty and Data (MITx)**
 - Issued: May 2020 | Credential ID: e137c638536d4e10a5478d7b093631f4
 - [Show credential](#)
4. **Fundamentals of Statistics (MITx)**
 - Issued: Dec 2019 | Credential ID: 2eb5d66a39a5498580411b7928ce9d7b
 - [Show credential](#)
4. **AWS Certified Solutions Architect -(SAA-C03) Cert Prep: 1 Cloud Services Overview**
 - Issued: Feb 2024

- [Show credential](#)
- 5. **AWS Certified Solutions Architect – (SAA-C03) Cert Prep: 2 Storage Design**
 - Issued: May 2024
 - [Show credential](#)
- 6. **AWS Certified Solutions Architect – (SAA-C03) Cert Prep: 3 Virtual Private Cloud**
 - Issued: May 2024
 - [Show credential](#)
- 7. **AWS Certified Solutions Architect – (SAA-C03) Cert Prep: 4 Compute Services**
 - Issued: May 2024
 - [Show credential](#)
- 8. **AWS Certified Solutions Architect – (SAA-C03) Cert Prep: 5 Identity and Access Management**
 - Issued: May 2024
 - [Show credential](#)
- 9. **AWS Certified Solutions Architect – (SAA-C03) Cert Prep: 6 Auto Scaling and Virtual Network Services**
 - Issued: May 2024
 - [Show credential](#)
- 10. **AWS Certified Solutions Architect – (SAA-C03) Cert Prep: 7 Application Deployment**
 - Issued: Jun 2024
 - [Show credential](#)
- 11. **AWS Certified Solutions Architect – (SAA-C03) Cert Prep: 8 Databases**
 - Issued: Jun 2024
 - [Show credential](#)
- 12. **DevOps Foundations: Continuous Delivery/Continuous Integration**
 - Issued: Apr 2023
 - [Show credential](#)
- 13. **AWS Essential Training for Developers**
 - Issued: Aug 2022
 - [Show credential](#)
- 14. **Introduction to AWS for Non-Engineers: 1 Cloud Concepts**
 - Issued: Aug 2022
 - [Show credential](#)

- 15. **React.js Essential Training**
 - Issued: Aug 2022
 - [Show credential](#)
- 9. **PTE Academic English Test: 79/90**
 - Issued: Aug 2021 | Credential ID: 1727e1NZ3D
 - [Show credential](#)