
MOHAMMAD SHIRAVAND

FULL-STACK DEVELOPER

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Skills

Java, Spring, C#, ASP.NET, Go, NodeJS, Python
PostgreSQL, SQL Server, MySQL, MongoDB
HTML, CSS, DOM, JavaScript, TypeScript, Angular, Angular.js, Vue.js, React
Functional Programming, Object Oriented Programming
Singleton, Factory, Dependency Injections, Inversion of Control, Aspect Oriented Programming
Domain-driven design
TCP, HTTP, REST, WebSocket
Spring, Spring Boot, Hibernate, Spring Data
Spring Messaging, Kafka, RabbitMQ
Unit Testing, JUnit, Mockito
Integration Testing, Spring's test context
ASP.NET, .NET Framework, ASP.NET, MVC, ASP.NET Core
LINQ, Entity Framework
Go, Gin, Echo, Gorm, Gorilla Toolkit, HTTP, TLS, WebSocket, TCP, Protobuf, GRPC
Goroutine, Channel, Wait Group
NodeJS, Express, Nest, Mongoose, Socket.io
Python, Flask, FastAPI, Django
Request, BeautifulSoup, Selenium, SQL Alchemy, Pytest, Celery
HTML, HTML 5, DOM, CSS, CSS 3, SCSS
Angular, RxJS, NgRX
Component, Directive, Module, Service, Pipes, HttpClient, Reactive forms, Template driven forms
Module-based application structure/ Component-first
Rest API, Fetch API, Axios, GraphQL, WebSocket, Socket.io
Bootstrap, Material UI, Bulma, Foundation
Webpack, Babel, Lodash, Moment
Git, GitHub, GitLab, Docker, Docker compose, GitLab CI/CD, AWS, Azure Devops, Trello

Experience

Aspian

2022-2023

Full-stack Developer

I was responsible for maintaining the .NET framework/.NET Core backend subsystems along with the AngularJS(1.4) web interface. I implemented backend logic using Dependency Injection, Inversion of Control, and Aspect Oriented Programming to ensure high-quality code. Additionally, I designed databases and systems to solve complex business logic and successfully refactored legacy code from AngularJS to Angular.

As part of my role, I implemented aspect-oriented logging and role-based access control for different subsystems, and also designed and implemented an API gateway for calling external systems. I designed domain-driven applications with multiple layers, including presentation, business, domain, and infrastructure, and utilized LINQ and Entity Framework for working with database objects. I wrote SQL statements for creating and altering database tables and also defining many database views and stored procedures for handling business logic.

Furthermore, I focused on improving the performance of complex backend APIs and SQL queries, which resulted in optimized query execution times and increased system efficiency.

BarsaWeb

2018-2022

Backend developer

I was responsible for maintaining the Python and Flask backend while implementing a new API. To ensure efficient development, I followed the principles of Model-View-Controller (MVC) and implemented REST microservices. Additionally, I utilized SQLAlchemy as an ORM, and leveraged

Redis, PostgreSQL, and MongoDB to create dynamic data storage and management systems. I also designed and implemented microservices for user site operations, DNS, SSL, and payment using Go Lang. Furthermore, I used the microservice architecture and domain-driven design to ensure high-quality code. As part of my role, I implemented the side-car pattern for creating a mesh of different services alongside different nodes, and I enhanced Docker files and Docker Compose files. To streamline the development process, I used CI/CD tools such as Ansible and GitLab CI/CD. Additionally, I managed and coached backend team members to ensure optimal performance. I utilized Celery for managing long tasks implemented in Python and employed Caddy and Nginx for managing user sites and certificates. I also used Python and Jinja2 templates for generating user sites and leveraged PowerDNS for managing DNS more dynamically. Moreover, I used Go Lang to build native modules for mobile applications and implemented a reverse/forward TCP proxy for distributed nodes. Overall, I ensured the smooth functioning of the backend and contributed to the growth of the system through efficient implementation and development practices.

AbreDerak

Backend Developer

2017-2018

Backend implementation and maintenance:

Develop and maintain backends for TypeScript/Express.js/MongoDB/Redis, ensuring security, role-based access control, and scalable RESTful microservices architecture. Use Flask/PostgreSQL/Ansible for node management and create custom Ansible runners in Python to automate tasks and deployments.

DNS and website management:

Set up and manage DNS servers with Bind and enable full user control over options like TTL, priority, and automatic record import. Use Nginx as a website proxy and content cache, developing configurable cache policies for different zones and implementing CName flattening for better performance. Ensure SSL certificate management with Node.js and Let's Encrypt and set up monitoring systems for each node.

Ansible playbook development:

Create Ansible playbooks for setting up and configuring DNS nodes, Proxy and Content caching nodes, and RabbitMQ. Develop a bootstrap script for cluster nodes and implement a rate limiter and IP/Country block to improve security.

Additional functionalities:

Develop multiple functionalities for site guarding such as HSTS and Under Attack Mode, allowing users to specify maximum upload size and enabling caching with purge function, development mode, and custom caching rules.

Education

Shiraz University - Shiraz, Iran
Software Engineering