

Mohammad Fakhrpour

DevOps Engineer, Software Engineer



Live Version: mofakhrpour.github.io

Currently pursuing a master's degree in software engineering and live in Tehran

I possess nine years of programming experience. My work includes the Maskan Bank Android OTP app, redesigning the Windows CE multimedia system for BYD S6 cars, and contributing to the development of the Kavan BMS System.

Over the past four years, I have dedicated myself to DevOps as my primary focus, currently serving as a DevOps Engineer at "Nik Gostaran Arsh Diba" and "KalaResane Hasti, Golrang".

Tehran

09020070017

mo.fakhrpour@gmail.com

[Github](https://github.com/mofakhrpour)

[LinkedIn](https://linkedin.com/in/mohammad-fakhrpour)

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linkedin.com/in/mohammad-fakhrpour

Experience Highlights

DevOps

Automation [terraform](#) [ansible](#) [pulumi](#)

Scripting [bash](#) [typescript](#) [python](#)

Tracing [elastic apm](#) [sentry apm](#) [zipkin](#)

Logging [elastic filebeat](#) [elastic heartbeat](#) [pushgateway](#) [prometheus](#)

Metrics Monitoring [prometheus](#) [grafana](#) [elastic apm](#)

CI CD [gitlab-ci](#) [jenkins](#) [github action](#)

GitOps [jenkins](#) [form](#) [netbox](#) [ansible](#) [gitlab](#) [schedules](#) [idp](#)

API Gateway & WebServer [haproxy](#) [nginx](#)

Cluster Orchestration [docker](#) [compose](#) [docker](#) [swarm](#) [kubernetes](#)

Networking [linux](#) [network](#) / [ip](#) [tables](#) [pfSense](#)

Infrastructure [esxi](#) / [vcneter](#) [maas](#) [bind9](#) [ldap](#)

Software

Expertise in crafting optimal development roadmaps tailored to business requirements, ensuring alignment with [frontend](#), [backend](#), [infrastructure](#), and [DevOps components](#).

Proficient in selecting and implementing [software architectures](#) tailored to specific needs, including [domain-centric](#) [architectures \(clean/hexagonal/onion\)](#), [microservice architecture](#), [CQRS](#), [Event Driven](#), and more.

Extensive experience in utilizing a wide range of backend and frontend frameworks, including [Angular](#), [React](#), [Spring Boot](#), and [others](#), to deliver robust and scalable solutions.

Work History

<> DevOps Engineer

KalaResane Hasti Golrang

April 2023 to Present

Created CI/CD workflows with Jenkins, leveraging environment variables instead of multiple Jenkinsfiles.

Managed virtualized environments with ESXi, vCenter, Pulumi for IaaC, and Ansible for CaaC.

Implemented GitOps workflows with Netbox as the Single Source of Truth, utilizing Jenkins for CI, and Ansible for streamlined deployment processes.

Automated the configuration generation for HAProxy, BIND9, Prometheus, and various other infrastructure tools from Netbox using GitOps Flow, storing the new configs in a Git repository, and deploying them to servers.

Developed an Internal Development Portal (IDP) for developers, utilizing Jenkins Forms for request submission and Jenkins Webhooks to automate pipeline triggers, enhancing efficiency in development workflows.

Some of Projects:

DevOps Infrastructure role: devops engineer

<> DevOps Engineer

Nik Gostaran Arsh Diba

January 2020 to Present

Developed dynamic CI/CD pipelines using GitLab for diverse projects.

Automated VM management with ESXi, vCenter, and Terraform.

Implemented Ansible for efficient VM configuration.

Implemented GitOps workflows for seamless deployment.

Integrated Elastic APM and Sentry for comprehensive application monitoring.

Managed logs efficiently using Elastic Stack.

Monitored server and cluster metrics with Prometheus and Grafana.

Ensured High Availability (HA) across Three Datacenters for production.

Configured Kubernetes cluster for streamlined testing and future production migration.

Some of Projects:

DevOps Infrastructure role: devops engineer

<> Software Consultant

Nik Gostaran Arsh Diba

January 2020 to February 2022

Advised the Product Owner on converting ideas into technical specifications.

Provided development consulting to the technical team, helping them choose the best architectures based on their needs for Spring Boot projects.

Assisted in the migration to microservices.

Designed Adobe XD prototypes for Android applications.

Collaborated with the technical team to design database schemas.

Some of Projects:

Nikdiba Sales Platform Spring Boot Microservice role: consultant and architecture

Development Consultant

Hopen StartUp (Tebland)

October 2019 to February 2020

Created user interface designs and animations.

Provided consulting on Android project architecture using MVVM.

Implemented smooth UI animations.

Some of Projects:

Hopen android application role: ui ux manager, development consultant

Android Developer

Delino

April 2017 to March 2018

Collaborated to improve performance and fix existing bugs in the Delino application.

Implemented new features and functionalities in the Delino application.

Some of Projects:

Delino android application role: android developer

Software Developer

Dadekavan

January 2017 to February 2020

Implemented a business management system using Angular and .NET Core.

Developed a two-dimensional mesh designer Windows application.

Created an internet speed testing Android application for Irancell.

Upgraded the BYD S6 Karmania car multimedia system.

Completed various other applications for businesses and startups.

Some of Projects:

Business management system (BMS) Based on Angular and .Net Core role: angular developer, .net core developer

VOIP windows application Integrated with CMS role: ui designer, c# wpf developer

Caracal android application Car Tracking System role: ui designer, android developer

Android and C# Developer

Zarin Fekran Farhoosh

June 2016 to November 2016

Developed software locks and in-app payment systems for Android applications.

Created a Windows package builder for tutorial video packages, including integrated software locks.

Implemented web-based admin panels to manage activation codes and track activated devices.

Some of Projects:

In-App android payment With software lock role: android developer

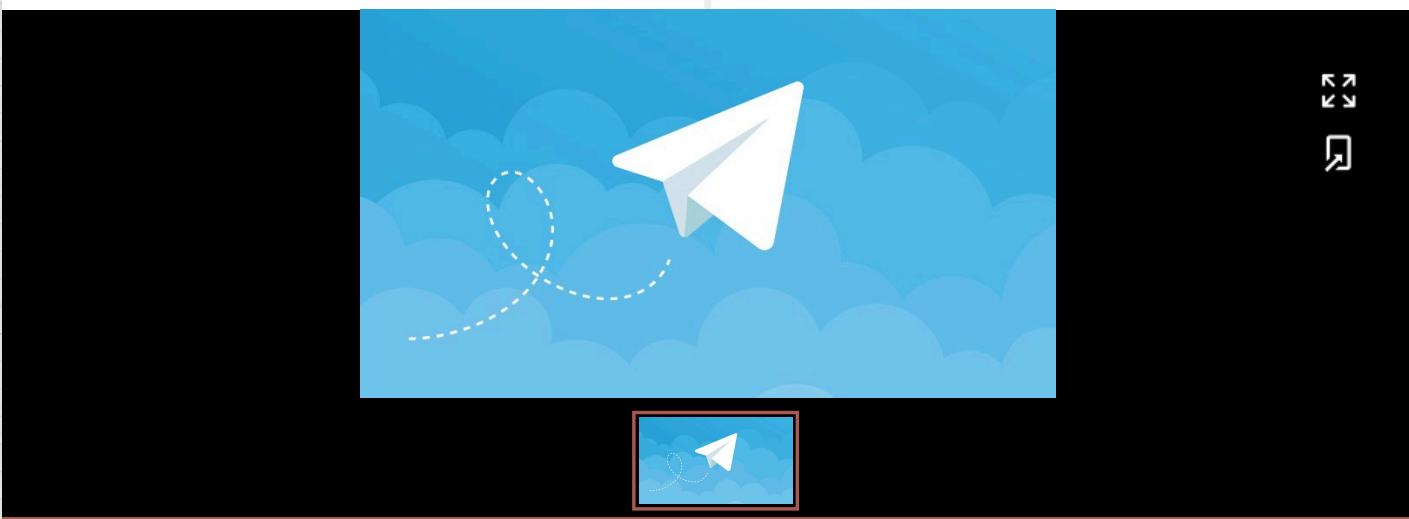
Video package builder for windows With software lock role: c# wpf developer

Admin control panel Web based role: php developer

first 3/2014

last 5/2021

Hands-On Projects



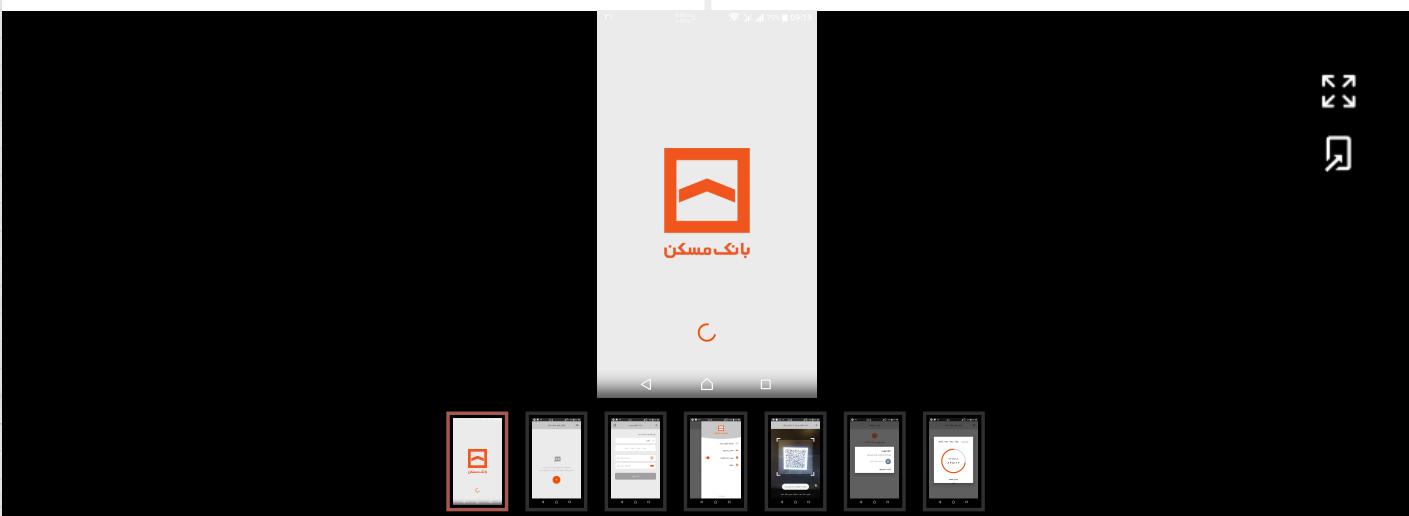
5/2021

Telegram Crawler (WebAPI)

nodejs mongodb
for Freelance

crawl, store, provide data with web api

- Written in NodeJs
- Based on Telegram API
- Can clone entire Channel or Group
- clone and update sequentially
- Separate media crawler from message crawler (modular)
- Media crawlers and scale up (node-worker) to maximum download speed
- Update edited or deleted messages
- Crawling groups and show realtime every new message



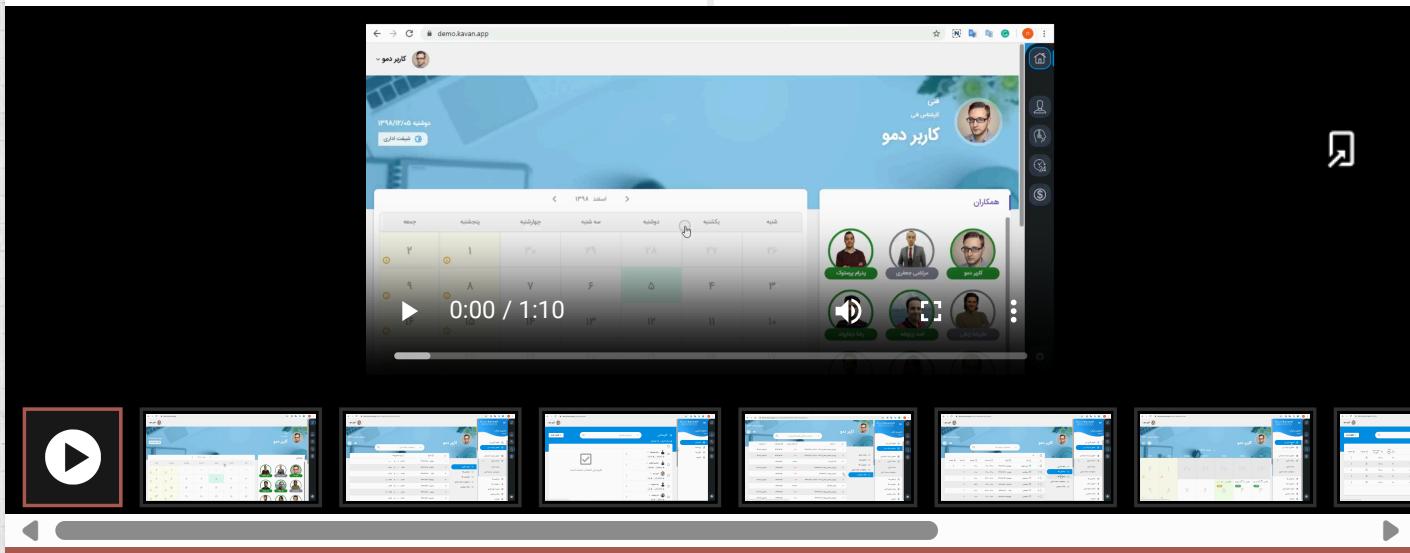
10/2019

android c language protection
for Saba Pardazesh Bank Maskan

رمز نما (رولید رمز دوم پویا بانک مسکن)
Android OTP App "Maskan Bank"

one time password generator

- Written in Kotlin and C
- Use C language for algorithm and encryption side
- Unbreakable encryption algorithm
- Consider all security issues
- Implement protection side with C language
- Fingerprint entry with security
- Offline token generation
- Sample and User Friendly UI



4/2019

angular asp.net core ux ui
for Dadekavan

Kavan BMS

business management system

- Written in Asp.NET Core and Angular
- Based on material design system
- Angular reactive programming
- All pages, UI and UX Designed based on design system
- Designing Adobe XD prototype before angular implements
- All components are designed to fit the design system
- Server side is based on IoC design pattern and Clean architecture
- Server side is microservice and service based
- Mapper, EF, UoW logic have been implemented





2/2019

Android App "Caracal"

android

mvvm

ui ux

animation

for

Dadekavan

car tracking system

- Written in Java and Kotlin
- Based on MVVM Architecture and DataBinding
- Fully Designed by Adobe XD and other prototyping tools
- Design animations and vectors
- Implementation animations by vectors and canvas
- Works with phablet and tablets and landscape orientation



11/2018

Upgrade Karmania BYD S6 Multimedia System

car multimedia system

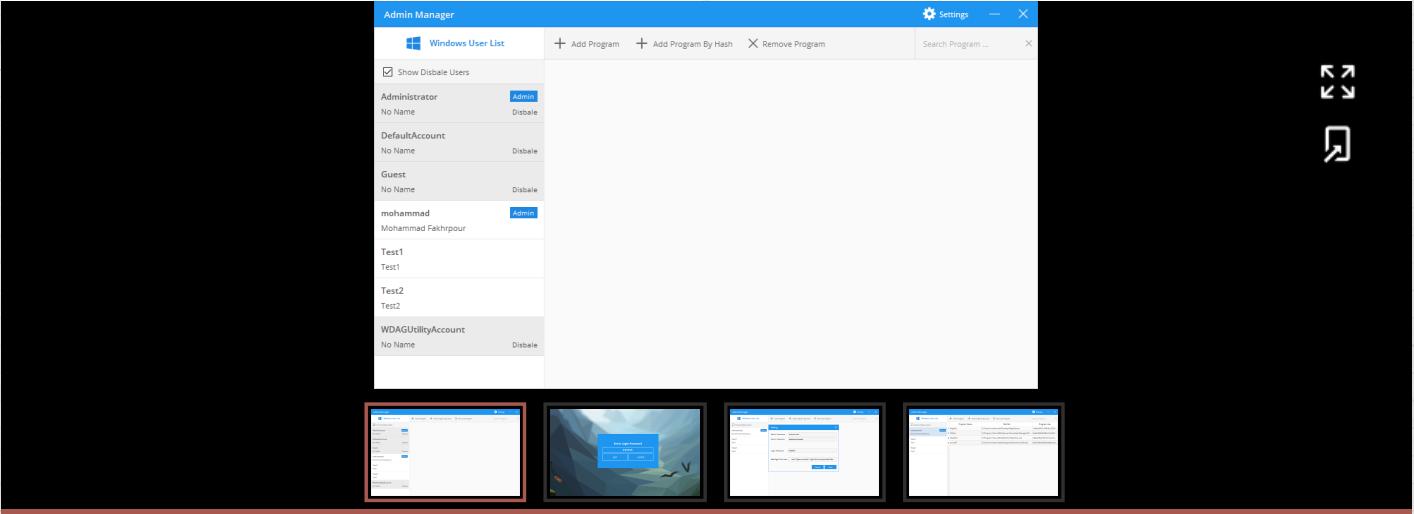
embedded system

c language

for Dadekavan

Karmania

- Windows CE based Multimedia System
- Add custom multimedia loading screen
- Add custom multimedia loading screen, folder list and browse navigation ability
- Reduce the time of startup and loading multimedia player
- Add the ability to show and change the song time by progress bar
- Add the ability to remember the latest playing song time and more mirror changes and improvements
- Improve appearance and user experience
- Clean up system registry
- Reduce system start time



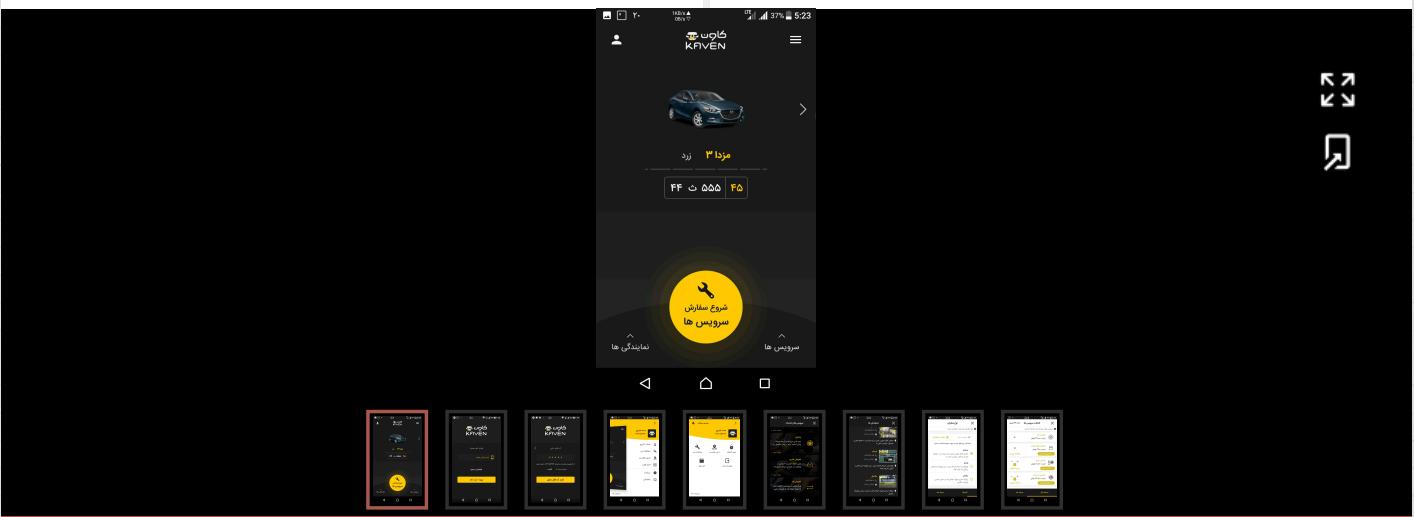
2/2018

qt ui c++
for Dadekavan

Windows "Admin Manager" Program

windows administrator permission controller

- Written in Qt C++
- Fully Redesign window frames
- Multi-Thread and ThreadSafe operations
- Manage admins and assign programs to users
- Pipe line communication
- Run applications in different privileges by windows apis
- Manage user administration tokens
- Protect admin informations in operations
- Handle processes owners in different accounts



1/2018

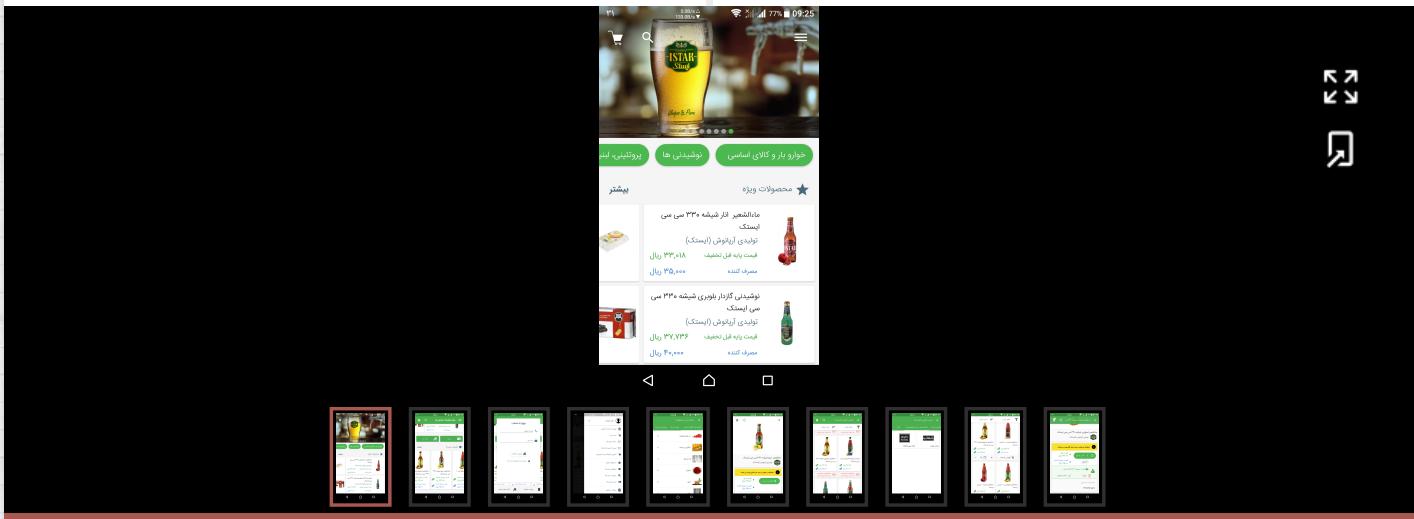
android ui ux animation
for Dadekavan

Android App "Kaven"

car in place repaire service

- Written in Java and Kotlin
- UX UI Designing by Adobe XD and other prototyping tools
- Design and simulation animations by ux tools
- Animation managing for smooth animations
- Works with phablet and tablets

- Optimized for split screen and landscape orientation



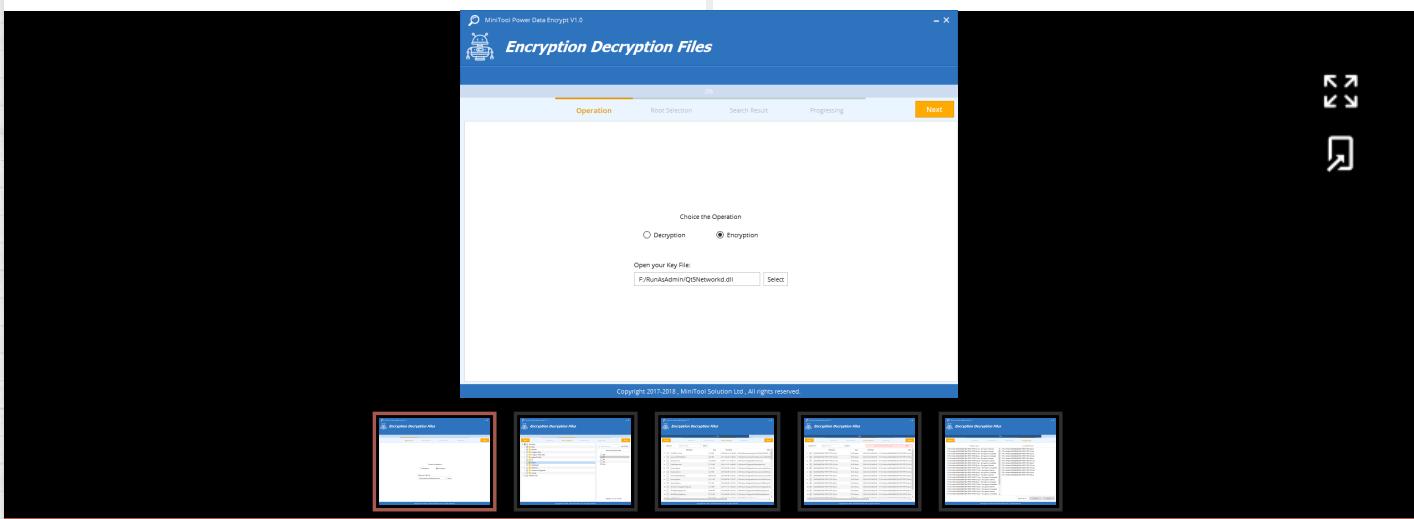
10/2017

android ui
for Dadekavan

Android App "PakhshCo"

online wholesale shop

- Written in Java
- MVP Design Pattern
- UI Design
- In-App Advanced discount calculation
- Works with phablet and tablets



9/2017

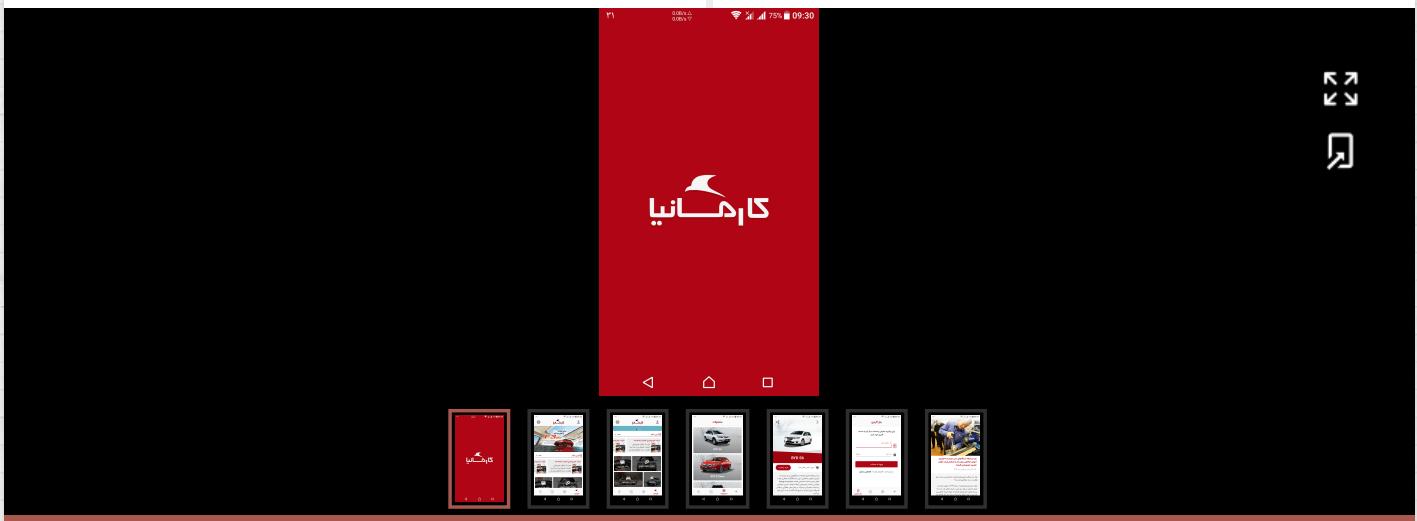
qt ui c++
for Dadekavan

Windows "Advanced File Protection" Program

file encryption and decryption

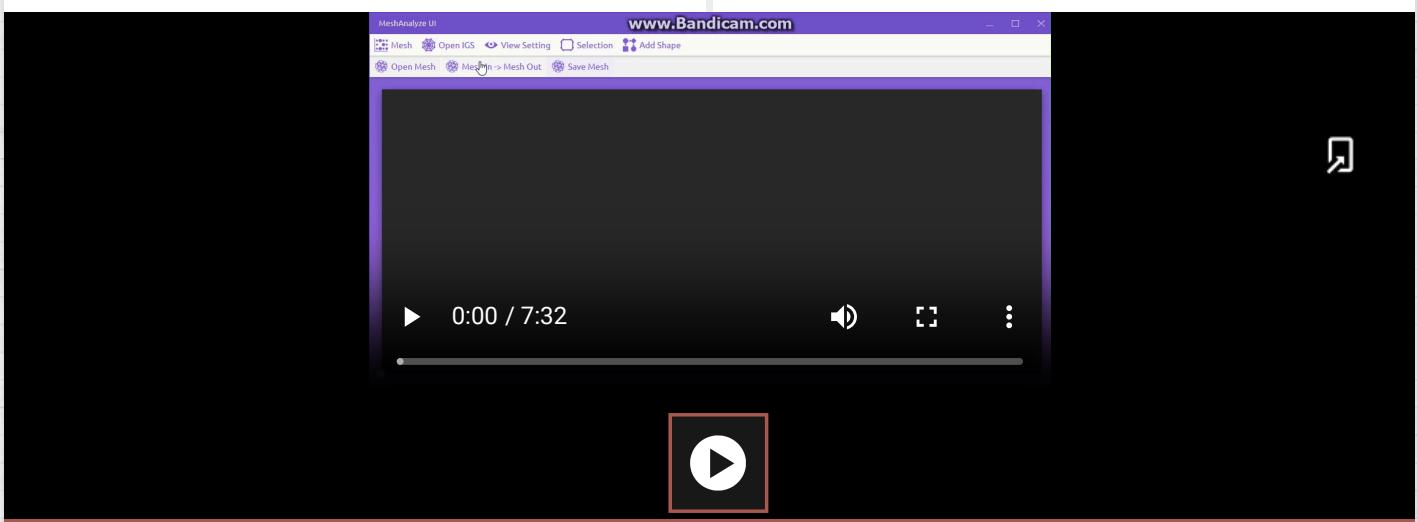
- Written in Qt C++
- Sample and user friendly UI
- Multi-Thread and ThreadSafe operations
- Advanced encryption and decryption algorithm
- Encryption based on folder and file extension

- Advanced search algorithm for encrypted files



8/2017 ● **Android App "Karmania"**
karmania customer care
for **Dadekavan** **Karmania**
android ui

- Written in Java
- Wireframe and UI Design
- Latest android material components
- Activity transition animations



6/2017 ● **Advanced Mesh Design and Analysis Software**
two-dimensional mesh design
for **Dadekavan**
wpf c#

- Written in C# WPF
- Read and analysis standard mesh files
- High performance in rendering
- User Friendly UI
- Easy zooming and panning
- Advanced edit tools

- Merge, Remove, Edit in level one (curves) and level two (points)
- Create new shapes with full access to all points
- Create mesh out of mesh files
- Change distribution of point in curves easily

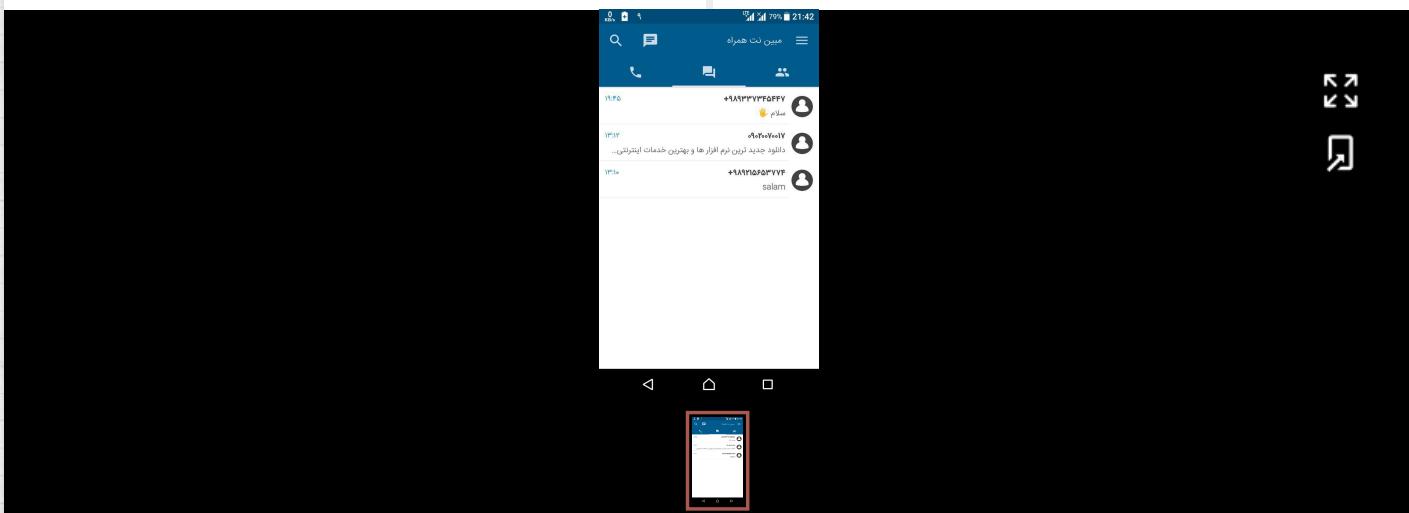


5/2017 ● Improve Android App "Delino"

android sqlite
for Delino

online food order

- Written in Java and SQLite
- Improve application performance and add some features
- Fix application bugs
- Improve UI, UX



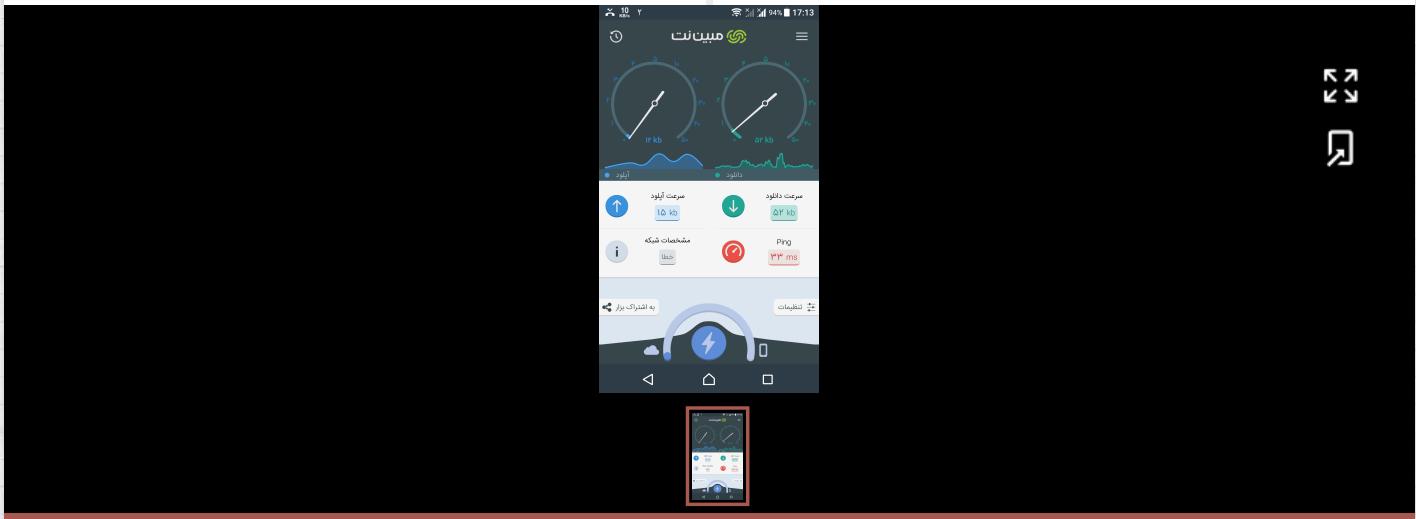
3/2017 ● Redesign "Linphone VOIP" Android App (لينفون نت همراه)

android ndk
for Dadekavan MTN Irancell

voip application

- Written in Java

- C++, CMake and Assembly files compiled and converted to java source files
- Application completely redesigned
- Refactor most parts and add some features
- Bubbles design chat conversion
- Right to Left support for android 3 and upper



2/2017

Android App "Mobinnet Speed Test"

internet speed test

for Dadekavan MTN Irancell

android vector

- Written in Java
- Custom UI controllers
- Advanced animations
- Custom data manager with xml data format
- Works with phablet and tablets
- Optimized for android 3 and upper

2/2017

Advanced nodejs Upload Server for "Mobinnet Speed Test" Android App

upload server

for Dadekavan MTN Irancell

nodejs

- Written in nodejs
- Multi upload connection support
- Get user ISP information (location, ...)
- Calculate upload speed of multi files in one request
- Real time upload speed
- API to sync with android app

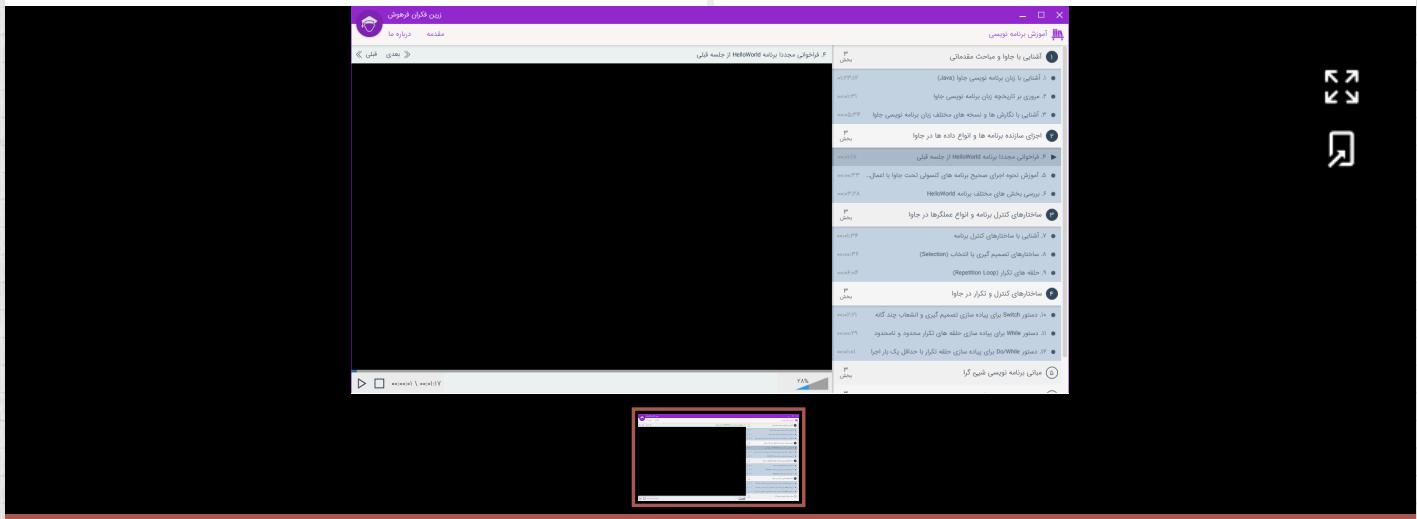
12/2016

PlusMW3 Anti Cheat Web Based Control Panel

nodejs socket.io mongodb
for PlusMaster

windows anti cheat

- Written in nodejs, Socket.io and MongoDB
- Real time report user state
- Admin room to control users
- Admins all are sync with each others
- Sync with c# desktop applications
- Save all reports in server side, reports is available in admin panels
- Local Advanced report manager



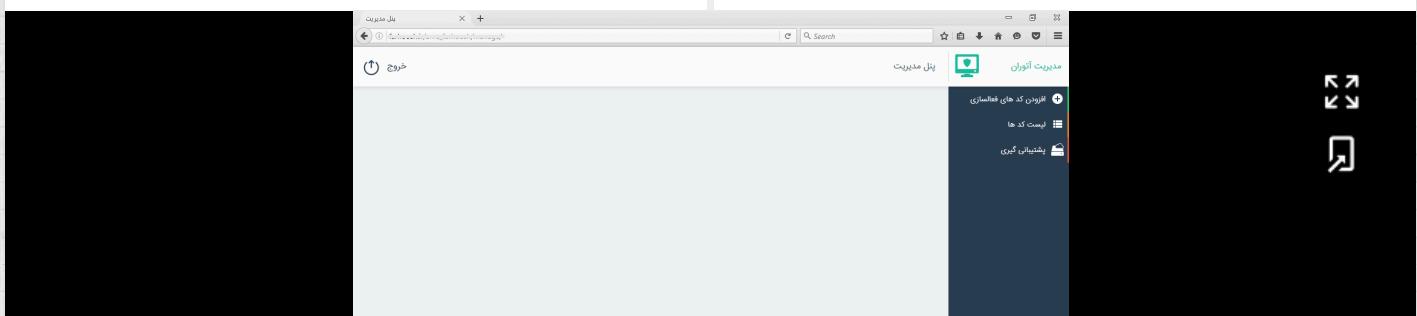
10/2016

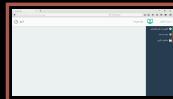
Advanced Autorun for Educational Video Products

mvvm wpf
for Zarin Fekran Farhoosh

package builder

- Written in C# WPF, MVVM
- Personal embed VLC Player
- Added custom capability to VLC Player for better UX
- User Friendly UI
- Advanced smooth animations
- Reusable activation code
- Advanced video encryption
- Web based control panel





10/2016

Web Control Panel for Manage Autoruns

web panel for manage activation codes and users

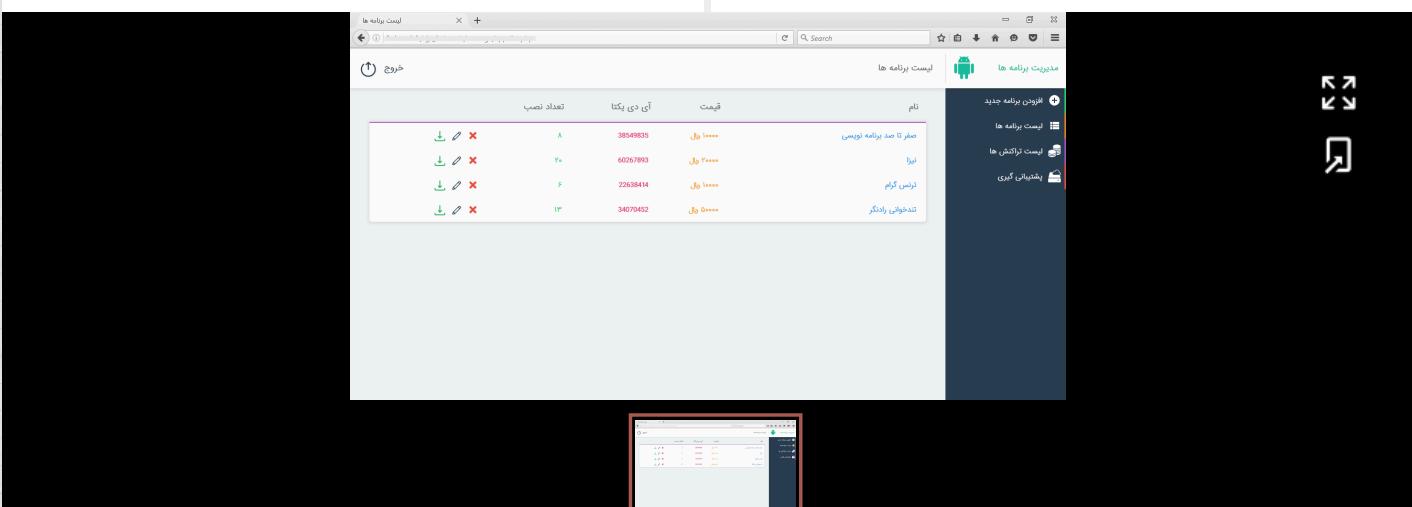
- Written in PHP and MySQL
- Fully AJAX
- Add unlimited unique activation code
- Manage activation codes
- All information about users and his codes
- Payment transactions list
- Backup and restore database

9/2016

Personal Android In-App Payment

in-app payment with software lock

- Written in Java
- Personal payment gateway
- Limit time (handled from server side) to use app free
- Local and server side Security lock
- Force update application (handle from server side)
- Web based control panel



9/2016

Web Control Panel for Android In-App Payments

web panel for manage payments

- Written in PHP and MySQL
- Fully AJAX
- Installed and Activated count of android apps
- Handle application version and updates
- Handle application id, name and prices of android apps

- Trial and Succeed Payment Transactions list
- Advanced upload manager to handle application apk files
- Backup and Restore Database
- Every developer have a personal account and can manage and view his application info

5/2016

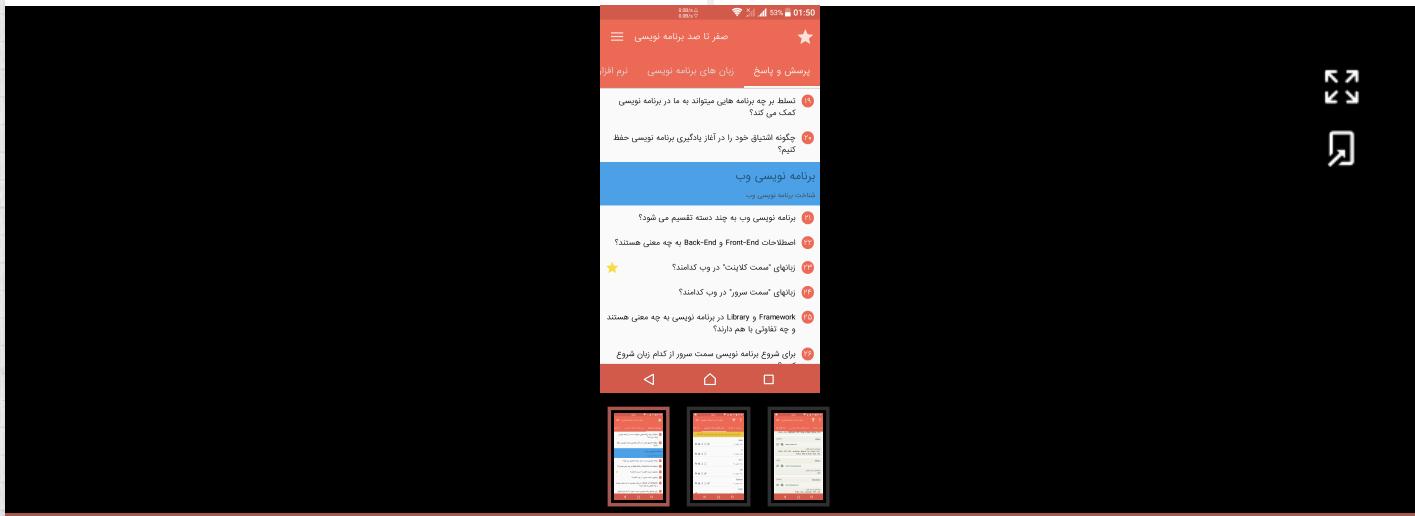
for University of Tehran

php mysql wordpress

Website University Of Tehran BRG Group

university website

- Written in PHP and MySQL power by Wordpress
- Advanced site control panel
- Fully AJAX
- Fully HTML5 and SEO



2/2016

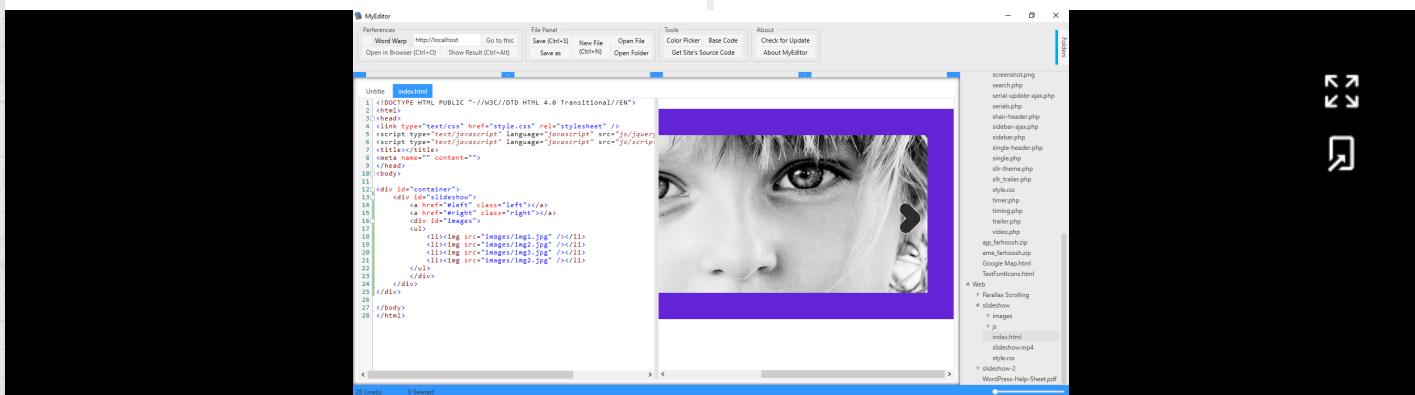
for Freelance

sqlite android

"صفر تا صد برنامه نویسی" Android App

educational android app

- Written in Java and SQLite
- Fully Optimized for android 2.3 and upper
- Material UI with android 2.3 support





4/2015

MyEditor

c# wpf

for Freelance

windows text file editor with code highlight support

- Written in C# WPF
- Multi-tab editor
- Embedded In-App chromium browser
- In-App HTML files preview
- Advanced folder manager
- Sample syntax support

2/2015

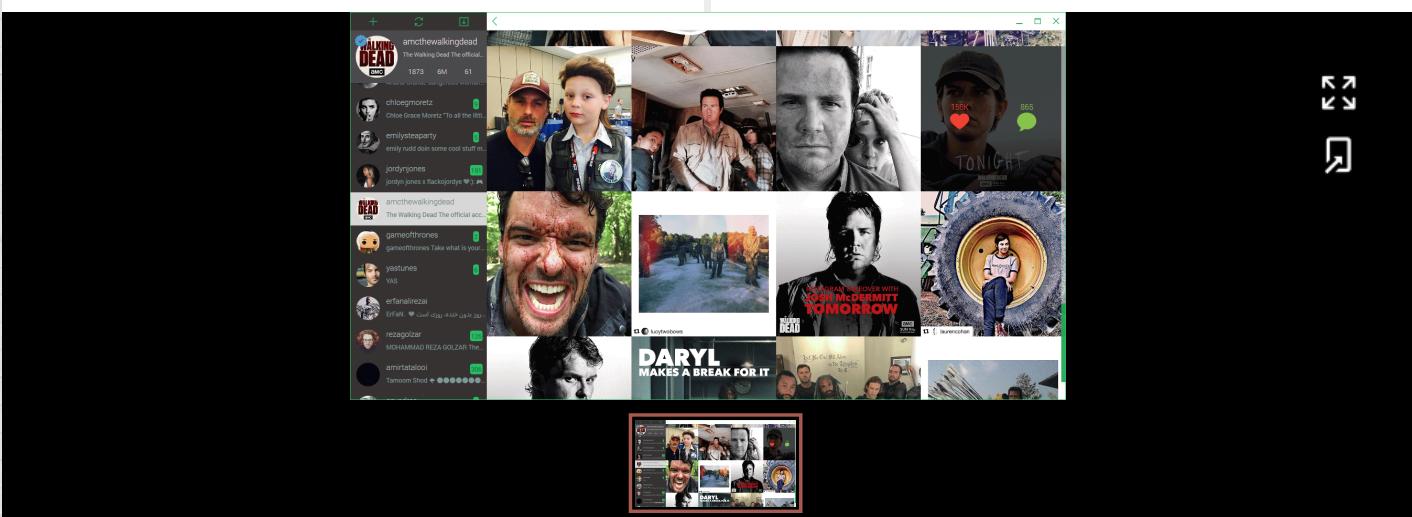
Element Download Manager

c# wpf mvvm

for Freelance

windows download manager with multi connection support

- Written in C# WPF
- Fully Redesign window frames
- Based on MVVM Architecture and DataBinding
- Multi-Connection downloading up to 32 connection per download
- Multi-Part downloading system
- Advanced video downloading
- Extention Based
- Run Third-Part Extentions on runtime



3/2014

Elementgram

c# wpf

for Freelance

windows instagram client

- Written in C# WPF
- Fully Redesign window frames
- Use non-public instagram apis
- Embedded Media Player as video player
- Show comments, video and images in full size

- Follow pages as anonymous