ASLANBEK ASADOV

+998 97 412-00-00

[aslanbek888@icloud.com](mailto:aslanbek888@icloud.com)

# iOS Developer

 +4 years of years of iOS experience. Built pixel perfect products for 0.5 million users.

* Areas: finance, banking, customer services

# Skills:

* **iOS/macOS/WatchOS:** Swift, UIKit, SwiftUI, AppKit, Concurrency, Accessibility etc.
* **Architecture:** MVVM -C, MVVM, MVC, MVP, Test Driven UI,
* **Technologies:** CI/CD, Firebase ML Kit, Analytics (Mixpanel, Segment, Firebase), TensorFlow (ML), CoreML, Hadoop, Spark;
* **Management:** Scrum, Kanban, Unit Testing, Code Review, Refactoring.
* **Programming languages and mathematical packages:** Swift, Python, C, C ++
* **Computer aided design/engineering:** Adobe XD, Figma, Sketch, Zeppelin;
* **Other**: SPSS, Linux Ubuntu, macOS, Windows OS, Postman API, Yacc, FLEX;

# Work Experience:

**JSCB “Kapital Bank” – Apelsin Digital Bank, Tashkent** Oct. 2019 - present iOS developer:

* Wrote a framework for NFC Smart-card Tag reading of AID through Inner filesystem for iOS app in C/Swift - (utils static library);
* Worked with CoreBanking Interlayer, integrated HUMOPay NFC Payment framework to Andoid devices;
* Has been developing and maintaining Apelsin app - mobile banking app by Kapital Bank;
* Developed application from scratch: P2P, deposits, loans, worked with OAuth, etc;
* Worked with Paynet api, iABS api (Fido-Business), Google Firebase, Maps, implemented chat;
* Wrote high-quality code using MVVM-C architecture and covering code with unit tests, resulting in 90% test coverage;
* Developed backend driven UI architecture, where screens and interactions are defined by JSON. That allowed us to instantly push updates to the users without them having to update the app;
* Collaborated with backend and Android engineers to develop REST API contracts.
* Reviewed code of fellows engineers. 2-5 PRs reviewed per day.
* Worked with Core Banking Microservices and integrated them using self-developed interlayer written in Java Spring Framework;
* Official website of JSC “Kapital Bank”: [www.kapitalbank.uz](http://www.kapitalbank.uz/) / apelsin.uz

**JSCB “TBC UZ Bank” — (TBC International), Tashkent** Aug. – Oct. 2019 QA Engineer/ IT Intern:

* Worked with the most perspective team developing IT Banking based on Core Banking;
* Worked with iABS, FIDO APIs, NIBBD API;
* Wrote API Test cases on JavaScript (5-6) using Postman GUI;
* Worked in a team management based on Agile;
* Official website of JSC “TBC UZ Bank": [www.tbcbank.uz](http://www.tbcbank.uz/)

**JSC “Fox-Art Studio”, Tashkent** Jan. 2016 – Feb. 2019

# iOS developer (freelancer):

* Developed Mobile applications for a variety of fields;
* Created: Ayo Service, F2B App, CarRent.Uz, Fox-Arts;
* Wrote high-quality code using MVVM-C architecture and covering code with unit tests, resulting in 90% test coverage;
* Developed backend driven UI architecture, where screens and interactions are defined by JSON. That allowed us to instantly push updates to the users without them having to update the app;
* Collaborated with backend and Android engineers to develop REST API contracts.
* Worked in a team with different developing skills, worked as Team Lead in Ayo Service/F2B apps.

# Education

**Bachelor:**

**Inha University in Tashkent (IUT),** 9, Ziyolilar str., M.Ulugbek dist., Tashkent city

* + Major: B.Sc. in Computer Science
  + Graduated: 22 August 2020;
  + GPA: 3.93 in 4.5 scale; (87.3 out of 100.0 / 5.24 out of 6.0 in Swiss GPA Scale)

# Upper-secondary:

**Tashkent Polytechnic Professional College,** 26, Amir Temur str., Tashkent city

* + Major (Qualification): Finances
  + Graduated: July, 2016;
  + CGPA: 95.5 out of 100.0 (4.775 out of 5.0)

# Research Experience

**Undergraduate student, Inha University in Tashkent** 2019 – 2020

* **Internet of Things, SOC4110-002 dept.** 2020 Spring semester Advisor: Dr. Francis Noh Tai – Professor at INHA University Korea, Former founder and representative of Bell Labs Korea;
  + Developed and proposed solutions for modern city traffic congestions – Smart Traffic, SPNDSe IoT software solutions that consists of securely connected IoT devices through networks (WLAN 802.11.XX) to platform and users based on oneM2M infrastructure, Common Services Entity and RESTful API;
  + Integrated hardware components, sensors (in-Vehicle, in-Road: RADAR, GPS, LIDAR, Pneumatic road tube, ILD, Piezoelectric, RFID Tags, etc.) using Arduino Uno;
  + Wrote API for NB-IoT and LoRa communication between components of the systems in Python/C;

This work resulted in top ranked term projects on IoT course, i.e. 3rd best software project, IUT, 2020;

* **Capstone Design, SOC4130-003 dept.,** 2020 Spring semester Advisor: Jangwoo Kwon, Ph.D. – Professor at Dept. of Computer Eng. INHA University;
  + Created a prototype of an autonomous smart car in a minimized aspect ratio using Arduino Uno;
  + Wrote a software in Python for autonomous car communications, taking into consideration

4 motor modes (normal, deep, sensor, sensor deep) for lane detection using basic algorithms (Image BGR to HSV, HSV to GRAY, Gaussian Blur, Hough Lines, regression during separation of an amalgam of left/right sides);

* + Wrote software in Python for Signs Recognition, obstacle and traffic light/crosswalk detection using camera and LIDAR using deep learning and raw data model;

This work resulted in top ranked term projects on Capstone Design course, i.e. gained 4th best project in Spring 2020;

* **Artificial Intelligence, SOC4040-002 dept.,** 2019 Fall Semester Advisor: Dr. Francis Noh Tai – Professor at Dept. of Computer Eng. INHA University, Former founder and representative of Bell Labs Korea;
  + Designed and developed a mobile application integrated with our custom optimized neural-network model that studies implications of mental diseases on a human being in various conditions and locations all the while providing medical suggestions in addition to professional cure; Analyzed and identified facial and vocal patterns of feelings and intonations of testees;
  + Built a neural-network oriented on a mental health state classification of an individual in terms of existing medical care data with average confidence level of 82%;
  + Tackled data collection and mining problems by sample mirroring techniques;

This work resulted in top ranked term projects on the course, ranking 2nd best in Fall 2019;

* **Theory of Programming Languages, SOC4140-001 dept.,** 2019 Fall Semester Mentor: Dr. Abdul Rahim Naseer - Dean & Professor at Dept. of Computer Eng. INHA University, US Marquis Albert Nelson Lifetime Achievement Award Scholar;
  + Designed and developed a new programming language “RULANG”, targeted on young engineers with lack of English Languages proficiency, based on C++/Swift/Java syntax and semantics with additions from FRINK PL for larger primitive data types (units of measure, advanced math. Functions etc.);
  + Implemented by applying functional and imperative paradigms, set RULANG as pure interpreting languages that translates each line to a parse tree thus to be computed by Python predefined instructions; Defined semantics and syntax rules, lexical analyzer using FLEX, Symbol Table, Yacc GNU Bison;

# Achievements

**Dean’s List member** 2016-2020 all semesters Rankings: 8th place in 2017

**Academic Excellence Scholar** 2017 Spring semester Rankings: 8th place in 2017

Tuition Fee coverage: $ 2,500 USD

# Honours & awards

**Apple Academic Scholarship** 2020 - 2021

Università degli Studi di Napoli Federico II Corso Nicolangelo Protopisani 70, Apple Developer Academy 80146, Napoli NA - Italy

# Best Software Solution Award (IUT WORKSHOP) Spring 2019

INHA University in Tashkent (IUT), 9, Ziyolilar str., M.Ulugbek dist.,

INHA Summer School Contest Tashkent, Uzbekistan

**Academic Excellence Scholarship** Spring 2017

INHA University in Tashkent (IUT), 9, Ziyolilar str., M.Ulugbek dist., Tashkent, Uzbekistan

# Teaching Experience

**Lecturer, tutor, SOS Education Centre, Tashkent, Uzbekistan** Spring - Summer 2019 Course: Introduction to C++, Advanced Programming in C++, Advanced iOS Development Responsibilities: Developed and delivered 6 months long courses to students at the educational centre using contemporary teaching techniques, like Challenge Based Learning (CBL), Moodle etc. Taught 3 groups of 32 students;

# Projects

**JSCB “Kapitalbank”, Department of Innovative Products** 2020 - present

# and Development at Apelsin Digital Bank

* Worked on integration of HumoPay, NFC based payment on Android devices through Apelsin app;
* Developed custom interlayer API for both Core Banking and Android NFC protocols compatibility; Info: https://apelsin.uz;

**JSC “Project Managers”, Department of Development** Mar. 2020 – Apr. 2020

* Voluntary contributed to the development of iOS app “Birga Yengamiz”;
* Worked with CoreBluetooth & BlueTracer API in order to develop app that will help to prevent, identify and drastically reduce prevalence of COVID-19 in Uzbekistan;
* Assembled app completely from scratch along with other 3 developers;
* Info: https://birgayengamiz.uz/

**IUT WORKSHOP – an education app for INHA University** Mar. 2019 – May 2020

# in Tashkent, Tashkent

* Worked as Team Leader and Idea owner, in Team of 5 developers, iOS developer;
* Worked in the investment platform assembling process;
* Developed self-learning AI Assistant “L.I.S.A.” who is aimed to help ease team & project management process;
* Developed the entire functionality, major user roles, set Scrum Sprints, maintained development process;
* Winner of Summer School Contest 2019

**FerMa.uz – a farmer/distributor targeted app with marketplace** Sep. 2018 – May 2019

# Tashkent, Uzbekistan - Moscow, Russia,

* Worked as Project Manager, iOS developer, team of 6 developers, developed 3 projects;
* Developed system of B2B and B2C for farmers and retailers;
* Created the system that helps farmers and retailers using contemporary technologies to communicate with each other and improve trade partnerships and eliminate corruption in the process of trade.

# Volunteering

**GDGTashkent, Alphabet Inc., Google Developer Event** Nov. 2019

* Helped in organization processes, facilities check, queues management etc.

# Instructor and Tutor of Freshmen Students at IUT Aug. 2018

* Helped freshmen students to coordinate at INHA University in Tashkent, adopt to the study conditions and provided all necessary information and help upon the request;

**Codecraft.uz, Hour of Code Instructor** Jun. – Aug. 2017

* Helped teacher and tutors provide free-lesson for up to 80 kids within one day; Inha University in Tashkent,

**Math Competition Olympiad for students of Lyceums and Colleges** Apr. 27- May 15 2017

* Proctor, controlled process of holding Olympiad;.

# Language skills Language Skills

English – Fluent (IELTS 7.0 - 2020 y.); German – Fluent (Goethe Zert. C1); Russian - Native Speaker; Uzbek – Native Speaker;

# References available upon request\*