
Viktor Malyi



Personal Details

Location: Heilbronn, Germany

Age: 34

Professional Experience

Flutter/iOS Team Lead

xbird GmbH

10.2020 - present time

Leading a mobile team in charge of <https://www.flavia-app.de/> which is a certified medical product for diabetics currently in the stage of regulatory approval. Created to simplify the management of type 2 diabetes by tracking important relevant events and providing educational content. Available on iOS and Android platforms:

- Assembled the mobile engineering team worked on Flutter app from the concept to the market start in Germany including interviewing, mentoring, on- and off-boarding.
- Organized the development workflow inside of the mobile team including planning and issue management.
- Established the process for working on app features between the tech and product teams as well as planning, technical feasibility, handover and implementation.
- Designed and maintained the app release pipeline on all platforms.
- Implemented end-to-end mobile app localization approach.

Used programming languages, frameworks, technologies:

Flutter, Dart, Firebase, Google Cloud Platform.

Senior iOS Engineer

xbird GmbH

11.2019 - 10.2020

Developed and maintained an Automated Activity Detection iOS SDK intended to automatically track user's physical activity based on multiple sensor data and communicate it to the server:

- Delivered multiple core features to the app showcasing the SDK.
- Migrated Objective-C SDK implementation to Swift.
- Increased the test coverage by 25%.

Used tools and frameworks:

iOS, Swift, iOS framework

Personal project

12.2018 - present time

I Have Voice app (<https://ihavevoice.app>)

The iOS/Swift app allows people with motor neuron disease to interact with a smartphone by just using eyes.

- Implemented eye-tracking algorithm based on iPhone True Depth camera to track user's eye position and calculate the position of the cursor on the screen.
- Designed text input prediction model used in the screen keyboard to simplify text input.

Used programming languages, frameworks, technologies:

ARKit, Texture, Realm.

Personal project

01.2017 - 01.2020

AutoWorkout app (<http://autoworkout.app/>)

The iOS/WatchOS app (Swift) that tracks workouts automatically. It recognizes fitness exercises, calculates exercise time and provides detailed statistics for each exercise with the help of multiple neural networks fed with sensor data from Apple Watch.

- Developed end-to-end data preparation pipeline (Python).
- Implemented 10-class human activity classifier based on deep feedforward neural networks (F1: 92%).
- Developed a voting algorithm which increased overall model performance by 8%.
- Integrated classifier into Apple Watch app.

Used programming languages, frameworks, technologies:

Tensorflow, Keras, CoreML, Turi Create, Pandas, Jupyter, Sketch, Fastlane.

iOS Developer, Garmin Würzburg GmbH, Würzburg (Germany)

01.2016 - 10.2020

Worked on several native and hybrid iOS companion apps (Objective-C, Swift, C++) with heavy BT/BLE usage. Worked on Connect IQ app.

- Decreased app crash quote by 21%.
- Increased unit test coverage from 0% to 52%.
- Designed and implemented company-wide mobile app localization workflow including tooling.
- Took full responsibility to design and implement several core app features.
- Built automated app testing and delivery pipeline.
- Conducted OWASP security audit in the project.

Used programming languages, frameworks, technologies:

Dropbox Djinni, Quick, Nimble, Specta, Expecta, XCTest, Fastlane, AppCode, Xcode, Sketch, CocoaPods, Carthage.

Software Engineer in Test, Garmin Würzburg GmbH, Würzburg (Germany)

11.2012 bis 01.2016

Worked on test infrastructure, test design and implementation for automotive navigation solutions.

- Designed and implemented automated deployment workflow for test environments.
- Designed and implemented automated performance testing framework.
- Implemented an automated test framework (Python).
- Implemented majority of automated test scripts (Lua).

Used programming languages, frameworks, technologies:

Vagrant, Ansible, Android ADB, JMeter, Cobertura, Git, Gerrit, Ant, Apache, HP Quality Center, Doxygen.

Software Testing Engineer EPAM Systems, Dnipro (Ukraine)

09.2010 - 11.2012

Worked in CMS web applications domain as software testing engineer, then promoted to test team lead.

- Mentored 2 QA engineers.
- Hired 6 QA engineers.
- Manager the team of 10 QA engineers.
- Coordinated QA activities of 3 high-scale web applications (Java, Adobe Day CQ5, CRX, MongoDB)
- Participated in 3 pre-sales activities as a responsible stakeholder for quality issues.

- Improved test processes (TPI Next).
- Coordinated development of an automated testing framework.

Used programming languages and technologies:

Amazon AWS, JBehave, Robot Framework, Selenium 2, TestNG, Tomcat, Maven, Team City, Git, SVN, JMeter.

Junior Software Testing Engineer Proxistep, Dnipro (Ukraine)

09.2009 - 09.2010

Worked as a solo test engineer responsible for testing web applications in the insurance domain.

- Delivered 2 web applications with complex business logic (PHP, Django)
- Formalized testing activities on the company level.

Used programming languages and technologies:

MySQL, Selenium IDE, Fiddler.

Related Experience

Guest Lecturer

Hochschule für Angewandte Wissenschaften Würzburg-Schweinfurt (Germany)

05.2014

Lecture „What is software testing?“

Guest Lecturer

ISTQB.in.ua, Dnipro (Ukraine)

05.2014

Various lectures for ISTQB FL Certification preparation course.

Co-Founder, QA Dnipro Community, Dnipro (Ukraine)

05.2010 - 10.2012

- Raising local community of Software Testing Engineers
- Organizing meet-ups
- Organizing first software testing conference in Dnipropetrovsk

Open Source Projects

adb_android (Python Library for Android adb)

https://github.com/vmalyi/adb_android

Localization (Fastlane Plugin for Export/Import of XLIFF files)

<https://github.com/vmalyi/fastlane-plugin-localization>

Education

Nacional'na Metallurgijna Akademija Ukraini, Dnipro (Ukraine)

09.2009 - 10.2012

Master, Computer science, Industrial automation

Nacional'na Metallurgijna Akademija Ukraini, Dnipro (Ukraine)

09.2004 - 10.2008

Bachelor, Computer science, Industrial automation

Conference Talks

2014 – „How not to run a Code Review“ @XPDays Ukraine

2012 – „What I've learned from my mistakes as Test Coordinator“ @ITBrunch Conference

2012 – „TPI® Next: test process optimization“ @SQADays Moscow

2011 – „Testing like a Guru – crowdsource testing communities“,
„Use Cases VS User Stories“ @QA Dnepropetrovsk Community meet-ups

Language Skills

English – fluent

German – fluent

Russian – native language

Ukrainian – native language

Miscellaneous

2011 – Member of Agile Base Camp Program Committee

2012 – Ambassador and Stage Chair, Agile Testing Days 2012

Social Networks Profiles

Xing: https://www.xing.com/profile/Viktor_Malyi

Linkedin: <https://de.linkedin.com/in/viktormalyi>

Kaggle: <https://www.kaggle.com/vmalyi>

Medium: <https://medium.com/@vmalyi>

StackOverflow: <http://stackoverflow.com/users/1254211/viktor-malyi>

Github: <https://github.com/vmalyi>

Slideshare: <http://de.slideshare.net/vstratus/>