Fabio Tudone (fabtud [AT] gmail [DOT] com)

Software Engineer & DevX guild @ Tufin
View the Project on GitHub at https://github.com/circlespainter

Fabio Tudone

Software Engineer from 2002 (16+ yrs) and relentless learner.

- *Languages*:
  - **English**: fluent (all skills)
  - **Hebrew**: work proficiency (all skills)
  - **French**: once fluent (all skills), can pick it up again in short time
  - **German**: beginner (actively studying)
  - **Italian**: mother tongue

- **Karmiel** resident
- **ITA/EU** citizen
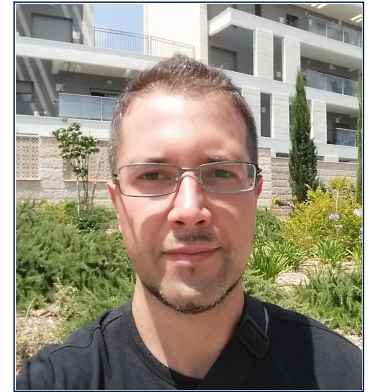
Professional Direction

I believe that **Distributed Ledger** technology, **Augmented Cognition (Machine Learning, AI)**, *Augmented Perception (AR, VR, natural HCI)*, *Pervasive Computing (IoT, wearable, mobile)* and, later on, *Quantum Computing* will be revolutionary forces in helping human society tackle scaling, security, governance and real-world complexity in so many fields.

I'm striving to **become a more active contributor in at least some of those**, as well as **building exceptional cloud-native microservices products with advanced interactive Web and Mobile UIs** and **interactive data visualization** while helping improving and/or building any relevant core technologies such as languages, runtimes, frameworks and/or development tools.

Professional Experience

Senior Product Engineer & DevX @ Tufin (Misgav)

- **Area**: Tufin network security Orchestration Suite 2 (cloud-native) & DevX guild
- **Period**: June 2018 - present
- **Personal achievements**: improving processes as part of the DevX guild, got a good grasp of microservices architectures, technologies and challenges, understood importance of security orchestration and automation, held an engaging session about Kotlin coroutines
- **Technologies**: Kotlin, Spring Boot, Project Reactor, GraphQL, Docker, Kubernetes, Helm, Linux, MongoDB, Cassandra, IntelliJ Idea, Git, Linux, Gradle

Senior Product Lead & Engineer @ BMC AppViz (Tel Hai)

- **Area**: AppViz deep-dive instrumenting agent for JVM/JEE
- **Period**: Oct 2016 - May 2018
- **Personal achievements**: entered the Israeli workforce, Hebrew day-in day-out at work, successfully led a team, introduced Kotlin, re-architected the codebase, implemented initial async transaction tracing support
- **Technologies**: Kotlin, Java, JVM instrumentation agents, JMS, JEE servers (WebSphere, WebLogic, JBoss mainly) C#, IntelliJ Idea, Git, Linux
- **Left because**: no new product development, limited learning chances, far from home

Quasar OSS stack Software Engineer @ Parallel Universe (mostly remotely, Tel Aviv)

- **Area**: Implementing efficient Lightweight threads for the JVM, high-level concurrency abstractions and a whole ecosystem
- **Period**: Dec 2014 - Jul 2016
- **Personal achievements**: fantastic project with incredible potential and much needed enabling technology, lots of writeups, webinars, Oracle collaboration on the new *StackWalker* API and implemented a JDK9 agent-less Quasar with on-suspend lazy instrumentation, felt an owner the whole time, helped the Company spare trouble by proactively leaving when needed
- **Technologies**: Java, Clojure, Kotlin, JVM instrumentation agents, IntelliJ Idea, Git, Linux, Gradle, C, integrating Kafka and lots of libraries (see Comsat), some Erlang/Elixir and Go
- **Left because**: funding round unsuccessful, business suspended

Senior Engineer to CTO @ Thron (prev. New Vision), Piazzola sul Brenta (Padova, ITA)

- **Roles**: Senior Engineer, Team Leader, Solution Architect, Development Manager, CTO
- **Area**: Cloud-native DAM platform
- **Period**: 2009 - Dec 2014
- **Personal achievements**: we built the platform and the Company itself from around 10 people to 80+ drawing upon the extensive previous video platform and online events experience, introduced Scala and many other technologies, C-level management, worked with world brands such as Ferrari and Valentino

- **Technologies**: Java, Clojure, IntelliJ Idea, Streaming, CDN, Adobe Flash, Adobe Flash Media Server, Adobe Air, MongoDB, MySQL, Git, Linux, Gradle, AWS (EC2, S3, ELB, CloudFront, EBS, Route 53, VPC, SMS, Glacier), NGINX, Varnish, HTML(5), CSS, JavaScript, jQuery, KnockoutJS, mobile web and streaming on Android and iOS, some Ruby on Rails
- **Left because**: wanted to come back to development, moved to Israel, wanted experiences abroad

Software Development @ Uniters in Montecchio Maggiore (Verona, ITA)

- **Area**: Project Lead and Senior Engineer for a Spring/MySQL-based ERP for furniture care
- **Period**: 2008 - 2009
- **Personal achievements**: we built from scratch an internally-brewed furniture care management system used by Chateux d'Ax, worked with outstanding local professionals, lead an external development team, worked with remote colleagues from UK, travelled to UK and US
- **Technologies**: Java, Spring, JavaScrpt, HTML, CSS, jQuery
- **Left because**: Company's financial hardships, disagreement about general management approach

Junior Software Engineer to Team Leader @ Finantix in Marghera (Venezia, ITA)

- **Roles**: Junior Engineer (J2EE, project), Senior Engineer (J2EE, project), Senior Engineer (Platform R&D), Team Leader (Platform R&D)
- **Area**: Wealth Position and Retail Banking product, Domain-oriented architecture and development tools
- **Period**: 2002 - 2007
- **Technologies**: Java, JEE, XML, UML, Eclipse, programming language-building technologies
- **Personal achievements**: worked with many international parters and colleagues from around the world, we built a whole business-oriented programming language and platform including a LINQ-style query language and its Eclipse-based IDE and
- **Left because**: not lots of opportunity to grow and learn

Certifications and Courses

- 13 Jan 2019: **Corda Certified Developer** (R3)
- 13 Jan 2019: **Introduction to Corda Development** (R3 / Udemy)
- 28 Dec 2018: **4-course Blockchain Specialization** (The State University of New York & University at Buffalo / Coursera)
- 25 Nov 2018: **Docker, Kubernetes & Helm** (Udemy)
- 3 Apr 2018: **Developing Cloud-native applications with Microservices** (RedHat / Udemy)
- 31 Mar 2018: **Python for Data Science and Machine Learning Bootcamp** (Udemy)
- 6 Feb 2018: **Angular 5 - The Complete Guide** (Udemy)
- 11 Dic 2016: **Learning From Data** (CalTech / EdX)

Publications and Work references

- 2015-2016: Parallel Universe Blog write-ups (articles with author "Fabio")
- 2015-2016: Lightweight threads for the JVM: Quasar, Pulsar, Comsat, Capsule
- Jun 2016: jOOQ guest write-up
- Nov 2015: RebelLabs guest write-up
- Sep 2015: JetBrains guest write-ups and webinars
- 2015-2016: DZone re-posts
- 2015-2016: Java Code Geeks re-posts
- 2014-2018: StackExchange activity
- 2013-2019: GitHub activity
- 2001: PhD research

Computer Science activity

- **1y PhD student** (2001-2002) at Ca' Foscari University in Venice: languages and type-systems for distribuited and Mobile Agents programming; cryptographics protocols and programs modeling with methods to integrate them into mobile computing; static analysis of security properties (authentication, secrecy, non-repudiability) via type-systems or other static analysis methods.

Traditional Education

- **Computer Science Masters (5y)** (1996-2001), full grades (Ca' Foscari University, Venice ITA), graduation thesis: "*A distributed implementation of mobile calculi with JoCaml*"
- Science-oriented lyceum (1991-1996), full grades

Spare-time Interests & Hobbies

- Studying
- Science & technology
- Cultures, languages and travelling
- Music
- Writing