

## Mihai Soloi

mihai.soloi@gmail.com | +44 (0) 7706074771 | <https://www.linkedin.com/in/mihaisoloi>

I am an easy-going, flexible person who can work under pressure. I'm a quick learner, perpetually looking for new ideas. Have strong mathematical, logical, analytical background. I'm not afraid of responsibility. I quickly react to changes and adapt to them. I consider myself to have outstanding communications skills also due to substantial remote work experience(i.e. 5+ years).

My business experience: Open-source, Legal (ISDA, initial margin documentation), Energy industry (Energy price forecasting, IoT), Gambling industry (Sport betting), Health sector (Diabetes Glucose Management)

Technical experience:

- Preferred language: Scala(10+ years) - FP.
- Worked with big names in Scala FP community: [Alex Nedelcu](#) (5 years) & [Julien Truffaut](#) (1 year), from both of which I've learned a lot.
- Contributed to open-source libraries: Monix, Monix-Kafka, SBT Silencer Plugin
- Some language experience with: Java (2 years), Python (1 year), JS (1 year), Haskell (toy projects)
- Libraries I worked with: Play, Akka, Cats, Monix (Reactive & Async), Doobie, HTTP4s, Akka-HTTP, Monocle, Lucene, ReactJS
- Distributed Systems: Akka (Actors + Streams), Kafka, RabbitMQ
- Software familiar with: Kubernetes, Docker, PostgreSQL, MongoDB, ELK stack

### Lead Scala Developer (contract)

*Investsuite* December 2020 – Present, London, UK

Responsible for the integration with the SAXO broker and the technical direction of the team.

Technology summary:

- Programming languages: Scala
- Libraries: ZIO, Akka HTTP, Doobie, Quill
- Software: Docker, PostgreSQL, Kafka

### Senior Scala Developer (contract)

*HSS Hire - AnyJunk / Signify* March 2020 – October 2020, London, UK

Worked on a project for a partnership between HSS Hire and Anyjunk, which allows the clients be more in control over the process of booking construction equipment.

The project is built on a back-end of Scala and FP libraries, and a ReactJS front-end.

I've been in charge of the integration between the back-end systems between the two companies as well as integrating Stripe payments for easier client acquisitions.

Worked on the implementation of:

- asynchronous communication to 3rd party supplier via AWS MKS
- revamping deployment to be done via Docker containers and AWS ECS
- introduced build via Github CI
- introduced testing using property based tests
- implemented Stripe integration and contract workflow
- pushed for better code quality and code review practices

Technology summary:

- Programming languages: Scala, JS

- Libraries: Akka HTTP, Cats, Monix, Circe, Monocle, ReactJS
- Software: Docker, PostgreSQL, ELK stack

### **Lead Scala Developer (contract)**

*Linklaters / Nakhoda* May 2018 – December 2019, London, UK

Worked on a project for a partnership between Linklaters and International Securities and Derivatives Association (ISDA) that allows lawyers to reduce the negotiation time of contracts from 9 months to a matter of hours and to extract metadata from negotiated contracts.

The project is built on a back-end of Scala and FP libraries, and a ReactJS front-end.

I've been in charge of the back-end development of the negotiation workflow logic and validation of the schema definitions and answers specification submitted for each document type.

Worked on the implementation of:

- designed and developed multiple types of negotiation workflows
- validation of submission of answers
- document schema conception and definition
- printing documents from HTML templates into PDF and DOCX outputs
- Lucene index building and a custom search solution
- Okta SSO integration
- custom templating and sending emails via Amazon SES
- job queue built on top of PostgreSQL

Accomplishments:

- Project received many industry prizes and was recognized as a revolution in the industry
- Introduced colleagues to functional style of programming and acted as mentor for all the new Scala developers in the project.

Technology summary:

- Programming languages: Scala, Python, JS, PHP
- Libraries: Play, Cats, Monix, Doobie, HTTP4s, Monocle, Lucene, ReactJS
- Software: Kubernetes, Docker, PostgreSQL, ELK stack, PDFtk, PHP-Docx

### **Scala Developer (contract)**

*Eloquentix* Octobre 2013 - May 2018, full remote: Bucharest, Romania

- *Livongo* May 2015 - January 2016

Worked on project advancing the health-care industry, being in charge of building an engine that automatically generates forms for patients based on doctor's feedback, and blood glucose monitoring device that feeds in data once per day from patients to the system.

- *E.ON* Octobre 2013 - May 2018, on-site: 1 week every 2 months in Essen, Germany

Worked on a project that monitors and controls power plants. The project is built as a micro-services architecture, on top of the JVM. I've been in charge of the bottom layer of the system, which involved implementing the required communication protocols, modeling of state machines that mirror multiple power plant types and processing real time signals.

I have also acted as a senior consultant for getting teams up to speed with best development practices for the JVM, Scala and functional/reactive programming.

Worked on the implementation of:

- required communication protocols
- soft real-time signal processing

- modeling state machines that mirror multiple power plant types
- a system that accurately simulates the behavior of real world power plants, from very little specification, that allowed acceptance testing of overall platform
- core logic that provisioned and aggregated virtual power plants
- the rules for trading on Germany's and UK's energy market
- the handling of millions of datapoints per second getting streamed through Kafka reliably, stored in the TSDB and streamed via WS to clients
- notification of users both through email and SMS as well as calls via integration with Twilio

Accomplishments:

- Designed and developed 4 core components in VPP architecture
- Was responsible to build the concept and develop the solution for redundancy in the VPP project, a system that has a SLA of <https://uptime.is/99.999>

Technology summary:

- Programming languages: Scala, Java, Python, JavaScript, Ruby
- Libraries: Play, Rails, Akka, Slick, Cats, Monix
- Software: Apache Hadoop, Apache Kafka, PostgreSQL, MongoDB, OpenTSDB, Cassandra, Linux

### **Python Developer (contract)**

*INRIA* January 2013 - July 2013, Rennes, France

Working on the ConPAAS project for my master thesis

- finished adding the capability for starting services and nodes on multiple cloud providers at once
- fault recovery system that can cope with entire cloud failures
- currently adding the authentication and authorization service for users of the IaaS manager

### **Java Developer (contract)**

*GSOC* May 2012 - September 2012

working on Apache James Mailbox creating a distributed index over HBase using Lucene

### **Java Developer**

*1&1 Internet AG* June 2011 - April 2012

Internal Development team working on internal products to help company employees

### **Full stack(Java + JS) Developer**

*Betbrain* November 2009 - May 2011

- Developing and maintaining company's software application(J2SE) and databases(MySQL) also worked on Struts framework and Javascript.
- Developed cross domain and custom RPC solutions, integration with existing platforms,
- Application testing and writing software documentation,
- Offering support to users of the company's site, and maintaining existing applications.

### **Education**

M.S., Computer Science, Vrije Universiteit Amsterdam, Parallel and Distributed Computing Systems  
2012 - 2013, Amsterdam Netherlands

- Diploma dissertation: Contrail PAAS - Multi-datacenter distributed application hosting and monitoring

Bachelor, Computer Science, University POLITEHNICA of Bucharest, 2004-2009, Bucharest, Romania