

# Andranik Muradyan

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## Career

### Workshop leader - TUMO Yerevan

01.05.2024 - 31.05.2024

**Tech used:** JS, Deno

A workshop for high school students on building programming language. Shvi, the language, is inspired by LISP and is a simple notation for writing music. During the workshop, students will go through each step, gradually adding features and building a simple interpreter. The workshop is designed to be fun and engaging. It is open-ended from some point, to allow for creativity and exploration.

### Freelance

01.08.2024 - present

### Scrapper in Python    **Tech used:** Python, BeautifulSoup, PostgreSQL

Parsing Armenian laws and regulations from the official website of the Republic of Armenia to allow the users to search for certain laws and regulations by keywords. The project is in the early stages of development and is being done in Python.

### Scrapper in Scala    **Tech used:** Scala 3, Cats, ScalaTest, PostgreSQL

Scraping certain e-shops for hot deals and sales. The frontend for this project is Telegram, so the admin panel, the staging channel and the actual channel are all in Telegram.

### Full-stack developer in JS    **Tech used:** React, Node.js, Next.js, PostgreSQL, Prisma

A shop, providing a wide range of printing services, like stickers, boxes, prints on clothes, etc. The project is in the late stages of development and needs supervision and some refactoring. The main goal is to make the code more readable and maintainable.

### Senior Scala engineer - DataArt Armenia

04.04.2022 - 18.07.2024

**Tech used:** Scala 2.13, Akka, Play, tAPIr, AWS SQS, IBM MQ, Cats

Overall I've spent about two years in two teams on a project in travel industry, automating cruise reservation flows across multiple agents and elements.

My main contribution to the project was a module to search plane tickets. I've managed to maintain a well-tested and coherent codebase and an structured repository, and learned that frequent demos calm the worried mind and help avoiding *dirty* estimates. Our team was able to experiment and agree on what's good or bad, so we were able to affect our modules of the project both technically /code style and structure, tooling, practices/ and process-wise /CI\CD, branching strategy, code review, .../.

Soon after, I took up the role of the **team lead** of a team of five /team 1/ and led it for three months. The team was in charge of several modules central to the operation, both semantically and topologically. I tried to get *better code reviews* via pair programming and a *clearer* information flow via more inclusive requirement gathering in attempt to address system correctness issues. These, along with a few others ideas, did not work out due to different socioeconomic reasons. Nevertheless, the team was able to maintain a deliverable flow suiting the needs at the moment.

For the last two months, I've been primarily engaged in maintenance tasks, frequently collaborating with a colleague.

### **Technical Trainer - Quality Testing Lab**

01.03.2020 - 01.06.2022

**Tech used:** Java/8/ as the main programming language, SerenityBDD, Gherkin, Cucumber, Selenium, Browserstack

**Tasks:** Design and implementation of a number of testing frameworks for online shops. Started as simple Selenium tests and gradually moved to SerenityBDD. Compilation of Gherkin scenarios from user requirements. Integration with Browserstack Development of toy projects in Java for exercising with juniors.

### **Freelance**

01.02.2018 - 01.03.2020

**Tech used:** Scala, Akka HTTP, MQL, Javascript, Python, Cython

**Tasks:** Design and implementation of the backend for a ticker data aggregator from different Meta-Trader4 vendors in Scala and MQL, processing Excel workbooks with financial data from different providers /normalization, exporting to PDF/ in Python. Validation of a framework for testing collateralized loan obligations and implementation of tests for CLOs in that framework.

### **Co-founder and senior developer - Praddicts CJSC**

11.11.2016 - 01.02.2018

**Tech used:** Java as the main programming language, Scala, JavaScript. Spring, PostgreSQL, MongoDB, Apache Spark, Apache Kafka, JenkinsCI, RabbitMQ

**Tasks:** Design and maintenance of a REST API. Integration of third-party data sources. Doing all sorts of small things with techs above.

### **Senior software developer - SCDM**

11.11.2014 - 11.11.2016

**Tech used:** Java as the main programming language. Java EE, Oracle RDBMS /PL SQL/, JSP

**Tasks:** Integration with a finmath library of a peculiar design. Integration with a number of asset-related data providers. Database design and development.

## **Freelance every now and then**

01.09.2009 - 11.11.2014

**Tech used:** C#, C++, Objective-C, NSIS, MySQL

**Tasks:** Employee DB /MySQL/ in C#. Chat module in Objective-C based on XMPP protocol /Facebook chat, GTalk, custom chat with configurable XMPP settings/. Media player with a 360 plugin based on VLC using QT and C++. Installer with crypto plugins in NSIS for the player.

## **Software developer - Hitegrity LLC**

01.12.2007 - 01.09.2009

**Tech used:** C/C++ as the main programming languages /COM, DCOM/

**Tasks:** Porting OmniTrust Protected Browser project to 64 bit. Implementation of features such as notes and highlighters for the editor of Castle's FaxPress project. Participated in the ProtectFile project for SafeNet-Inc.

## **Software developer - WestSoft LTD**

01.07.2007 - 01.12.2007

**Tech used:** C++ as the main programming language /ATL, STL/, MySQL

**Tasks:** Design and implementation of an ORM for MySQL\C++ for an ERP application /early stages/. Library for custom report generation in rich text format.

## **Software developer - Smart-Tech LTD**

25.12.2006 - 21.06.2007

**Tech used:** Erlang as the main programming language, Mnesia as DB, Yaws as webserver

**Tasks:** Integration for a number of Armenian banks with ARCA card processing.

## **Education**

**PhD** /unfinished/

**Department of Distributed and Dependable Systems, Faculty of Mathematics and Physics, Charles University in Prague /Ph.D./ 2013-2014**

**Courses:** Concepts of Modern Programming Languages /Groovy, Scala, Io, .../, Embedded and Real-Time Systems /RTEMS/, System Behavior Models and Verification /PROMELA, NuSMV/

**Projects during PhD** **Tech used:** Java, Xtext, Xtend, EMF, Alloy /relational modeling language/

**Tasks:** Implementation of the scheduler in jDEECo. Vehicle routing model /in Java, based on DEECo platform/. DSL design for CBSE

## **Bachelor and Master**

From 2004 to 2008, I pursued my Bachelor's degree in Computer Science at The State Engineering University of Armenia in Yerevan, focusing on Cryptographic Algorithms and Information Security.

I, then, continued my education at The National Academy of Sciences of Armenia in Yerevan, where I earned my Master's degree between 2008 and 2010, centering my studies around Information Theory.

## **Languages**

- Armenian - native
- Russian - advanced
- English - upper-intermediate