

Tigran Ohanyan

PDF (latest version) | github | tigranohanyan777@gmail.com | Yerevan, Armenia

Profile

Passionate Scala backend engineer with over 4 years of experience in designing and implementing scalable backend solutions for diverse industries, including finance, travel, and banking. Skilled in adopting advanced functional programming practices and delivering high-quality software solutions.

Skills

- **Programming Languages:** Scala, Golang, Python, MATLAB
- **Frameworks & Libraries:** ZIO, Akka, Tapir, Slick, Shapeless, ScalaTest, ScalaMock, Munit, Circe, sbt
- **DevOps & Tools:** AWS, CloudFormation and SAM, CI/CD pipelines (GitHub Actions), Docker
- **Databases & Storages:** DynamoDB, PostgreSQL, S3
- **Queues:** SQS, Kafka
- **Other:** Event Sourcing, Domain-Driven Design (DDD), Test-Driven Development (TDD), RAG systems

Career

Scala Backend Engineer

DataArt Solutions Inc | *Jul 2021 – Present*

Project: Cruise Line Company (Travel Domain) **Tech used:** Scala 2, Scala 3, ZIO, Akka, TDD, Docker

- Implemented TDD practices to deliver reliable and maintainable code.
- Migrated existing Scala code from Akka stack to ZIO stack and upgraded from Scala 2 to Scala 3.
- Designed and implemented backend services to enhance user experience for cruise bookings and management.
- Played a key role in making architectural decisions.
- Integrated seamlessly with legacy third-party APIs to ensure smooth operations.

Project: Banking Application **Tech used:** Scala, Akka, ZIO, GitLab CI/CD, Docker, SQS, SNS, MySql - Developed backend services and reviewed PRs to ensure high-quality code delivery.

- Participated in system design decisions, contributing to scalable and efficient architecture.
- Built CI/CD pipelines from scratch in GitLab, streamlining the deployment process.
- Monitored live applications, resolved production incidents, and ensured system stability.

Open Source Project

chessfinder.org | *Personal Project*

- Created and maintain a free, open-source application for chess enthusiasts.
- Demonstrated expertise in web application development and problem-solving for a niche audience.
- Contributed to the widely used Scala library **Tapir**

ML Engineer

Zoomerang Inc | *May 2021 – Jul 2021*

Tech used: Python, TensorFlow, Scikit-learn, Pandas, NumPy, SciPy

Responsibilities:

- Designed and implemented a recommender system to enhance user engagement.
- Researched and evaluated new methodologies to improve system performance.
- Customized and adopted existing tools to meet unique project requirements.

Scala Backend Engineer

SAS Group | *Jul 2020 – May 2021*

Tech used: Scala, Akka, Postgres

Responsibilities:

- Designed and developed trading bots for automated financial operations.
- Implemented a backtesting tool to evaluate trading strategies with historical data.
- Monitored and troubleshoot live applications, ensuring system reliability and performance.

Lecturer

Yerevan State University | *Aug 2019 – Jun 2021*

Tech used: MATLAB

Responsibilities:

- Taught students how to use MATLAB for constructing financial-economic models.
- Designed and delivered lectures, practical sessions, and hands-on projects to enhance learning outcomes.

Scala Backend Engineer, Researcher

Future Financial Technologies | *Aug 2018 – Feb 2019*

Tech used: Scala, AKKA, Postgres, MATLAB

Responsibilities:

- Designed and developed trading bots for cryptocurrency market operations.
- Conducted inference and backtesting of trading strategies to optimize performance.
- Researched and implemented innovative algorithms to enhance trading efficiency.

Education

M.Sc. in Applied Economics and Mathematical Methods

Higher School of Economics, St. Petersburg | 2016 – 2018

B.Econ. in Economics

Yerevan State University, Yerevan | 2010 – 2016

Languages

- **Armenian:** Native proficiency
 - **Russian:** Professional working proficiency
 - **English:** Professional working proficiency
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Soft Skills

- Time management
- Communication
- Teamwork and collaboration
- Adaptability and flexibility

Worth Mentioning

I scare off bugs, bring good luck to releases, and increase the odds of tests passing.