

# Liviu Mihai Nicola

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## SUMMARY

My research interests lie at the boundary of distributed computing and functional programming languages. I am also interested in applied category theory.

I have recently started my PhD studies at Stevens Institute of Technology, Hoboken USA, where I joined the Programming Languages and Systems Department. I focus my research in the field of formal reasoning about software, formal verification and model checking.

## EDUCATION

- ✿ **Ph.D. in Computer Science**, Stevens Institute of Technology, Ongoing, started in 2021
- ✿ **M.S. in Computer Science**, University Politehnica of Bucharest, Faculty of Automatic Control and Computers, September 2020
- ✿ **B.S. in Economic Informatics**, Academy of Economic Studies, Faculty of Cybernetics Statistics and Economic Programming, June 2005
- ✿ **B.S. in Economy**, Academy of Economic Studies, Faculty of Banking and Finance, June 2002

## TECHNICAL SKILLS

C, C++, C#, Java, Scala, Haskell, Python, Javascript, HTML, XML, MSSQL, Oracle, PostgreSQL, MongoDB, KeyDB, Kafka, Spark, Flink

## WORK EXPERIENCE

### Software Architect

*ING Bank Romania, March 2019 – May 2021*

- Design, pitch and document software solutions targeting batch and real time integration of in-house and commercial-off-the-shelf software, employing technologies such as Kafka, Flink, KeyDB, GlusterFS, PostgreSQL, Docker
- Analyze and improve operational architectural characteristics, such as availability, reliability, performance
- Create and advertise strategical roadmaps for immediate, intermediate and distant horizons
- Evangelize new and innovative techniques or technologies to be included in the bank's approved technological stack

### Software Architect / Senior Software Engineer

*United Nations Conference on Trade and Development (UNCTAD), Jan 2011 – Feb 2019*

- Design and implement custom software solutions based on diverse architecture styles, i.e. service-based sharing central database or microservices oriented

- Design and develop flagship product [eRegulations](#):
- Lead development teams, both remote and local
- Part of central team conducting trainings/workshops in Mali, Vietnam, Panama, in Dominican Republic

### **Cofounder @ StartLaMate**

*Blink RO Education, Sep 2013 – Sep 2015*

- Design and implement educational platform;  
[StartLaMate](#) is an early stage monitoring tool of the learning process that aims to give real-time, valuable feedback to parents, teachers, schools and all the other institutions involved in regulating the educational system

### **Senior Software Engineer / IT Team Lead**

*UNCTAD (via intermediary company SZ IT Services), Sep 2006 – Dec 2010*

- Develop new modules and bug fixing for e-government custom solutions

### **Software Engineer**

*Axway Romania, Feb 2005 – August 2006*

- Analysis, design of solutions and programming of modules for a commercial portal used in B2B communication.

### **Software Engineer**

*Realmcorp, Sep 2003 – Jan 2005*

- Full stack programming of modules for a startup product in hospitality field.  
System comprised of thin clients (web browser, desktop interface, PDAs) and central ordering management system

## PROFESSIONAL DEVELOPMENT

**Project Management Professional Certification, PMI, Issued 2017, Credential ID 2040310**