

Robert Sirviö

Date of birth 10.6.1989

Curriculum Vitae

I am music enthusiast, techgeek and a Helsinki university graduate with a master's degree in applied mathematics (computer assisted mathematics). In spite of my graduation being quite recent, I have already been able to establish a versatile and relevant working background.

Education

2014–2016 Master of Science, Helsinki University
2010–2014 Bachelor of Science, Helsinki University
2009–2010 Military service, Navy orchestra, Turku

Master's thesis

Topic Quantifying commodity basis risk by simulating the price dynamics of futures **Supervisor** Samuli Siltanen, Gillis Danielsen

Description The objective of the thesis is to construct a risk measure on the commodity futures market. Central themes in the thesis are futures price modelling with stochastic differential equations, and model parameter estimation utilizing statistical filtering techniques.

E-thesis https://helda.helsinki.fi/handle/10138/162968

Employment

02/2016- Full stack developer, ANALYSE²

As a part of an agile development team, working on a modern and highly responsive single-page web-application. The product is an assortment planning-, and pricing software aimed at different retail markets. The backend is implemented as an ASP.NET Web API (REST), whereas the frontend is built with an MVVM implementation relying heavily on AngularJS and TypeScript.

06/2015-09/2015 Portfolio management associate, ESTLANDER & PARTNERS OY

The research for my master thesis was done for Estlander & Partners. The main topic in my research was time series modelling of commodity futures utilizing Bayesian filtering algorithms. The objective is to produce a model that is able to quantify basis risk by simulating commodity spot price dynamics.

11/2014–02/2016 Junior full stack developer, VALUATUM OY

I worked as a part of a developer team developing a credit risk and equity research web application (provided as SaaS). Both the backend (Java and MySQL) and frontend (JSP and JavaScript) rely heavily on different frameworks. I have also familiarized myself with different automated unit-, and integration testing techniques and technologies in my work at Valuatum.

09/2014–11/2014 Course assistant, Helsinki University

As an course assistant I was responsible of conducting weekly exercise sessions for undergraduate students in different courses. I was also expected to develop model solutions to the exercise handouts and document the amount of exercises solved by the participants of the course.

01/2010-12/2014 **Tutor**

I have been tutoring several high school students in their math courses (both in the long and short curriculum). The tutoring usually consisted of weekly sessions where I would assist a student according to his/her wishes and needs. I have received a lot of great feedback from my tutoring.

Programming skills

Languages Java, C#, JavaScript,

& TypeScript, HTML, CSS,

Scripting SQL, Bash, Fortran, MATLAB, Clojure, LATEX

Technologies Spring, JUnit. Mockito. & JRebel, .NET, Moq, Angu-Frameworks | JarJS, jQuery, gulp, webpack, Robot Framework, JBoss, Tomcat, AWS, git, SVN

OS Linux, Windows

Database MySQL, PostgreSQL

Methods Object-oriented programming, Test-driven development, REST, MVVM,

& MVC, UML, Continuous integration, Jenkins, TeamCity, Agile methods,

Patterns Scrum, Kanban, Scrumban

Languages

Native Swedish

Excellent Finnish English

Basics Japanese German

Links

Master's thesis

Bachelor's thesis (in Swedish)

Linkedin (fi.linkedin.com/in/rsirvio)