



# Robert Sirviö

DOB 10.6.1989

## Curriculum Vitae

I am a graduate student at Helsinki university majoring in numerical mathematics. My fields of interest also include financial mathematics and computer science. I have been very successful in my studies, which in turn has had an influence in my versatile employment history.

### Education

- 2014–** **Master of Science**, *Helsinki university* will graduate 2015-2016
- 2010–2014** **Bachelor of Science**, *Helsinki university*
- 2009–2010** **Military service**, *Navy orchestra, Turku*

### Bachelor thesis

- Topic** Prissättning av optioner och den diskreta Black-Scholes modellen
- Supervisor** Hans-Olav Tylli
- Description** The thesis is a study on option pricing in the discrete Black-Scholes model (also known as the Cox-Ross-Rubenstein model).

### Employment

- 2014–** **Research assistant**, **ESTLANDER & PARTNERS OY** Intern  
Estlander & Partners has offered me an opportunity to write my master thesis for them. The thesis revolves around discretizing a pricing model of commodity futures (the Schwartz two factor model).

**2014– Junior full stack developer, VALUATUM OY**

I am working as a part of a developer team developing a credit risk and equity research software (provided as SaaS). The backend of the software is implemented mainly with Java, and using MySQL as the database solution. The frontend is implemented using JSP and JavaScript technologies. Both the frontend and backend rely heavily on different frameworks (see programming skills section). The software runs on an JBoss application server, which itself runs on an Amazon cloud server.

**2014–2015 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.

**2011–2014 Software expert, SIMTECH SYSTEMS INC. OY**

My responsibility was running fluid interaction and heat transfer simulations, analysing the results and finally giving reports on the simulations to different customers (mostly foundries). The main tools I used was Flow3D (CFD software) and Solidworks (CAD modelling software). I have also held training sessions for numerous Finnish and international customers. My expertise in programming and customer relations were highly appreciated by my employer.

**2010–2014 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.

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## Programming skills

<b>Languages &amp; Scripting</b>	Java, C/C++, JavaScript, HTML, CSS, SQL, Bash, Fortran, MATLAB, Clojure, L <sup>A</sup> T <sub>E</sub> X	<b>Technologies &amp; Libraries</b>	Spring, JUnit, Mockito, JRebel, Struts2, jQuery, JSP, FusionCharts, JBoss, Tomcat, git, SVN
<b>OS</b>	Linux, Windows	<b>Database</b>	MySQL, PostgreSQL
<b>Methods</b>	Object-oriented programming, Test-driven development, UML, Agile methods, Scrum, Kanban, Scrumban, AceProject		

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## Languages

<b>Native</b>	Swedish
<b>Excellent</b>	Finnish English
<b>Basic</b>	Japanese German

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## Links

[Bachelor thesis \(in Swedish\)](#)

[Free trial offered by Valuatum \(requires registration\)](#)