

# JAN SILVA

## PERSONAL INFORMATION

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## WORK EXPERIENCE

*10/17-present*      **Software developer**  
*SmartEE*      Developing a machine learning based application called Searpent, which identifies frauds in the car insurance industry. Also working on an engine analysing logo visibility in TV streams.

*10/16-10/17*      **Data scientist**  
*Freelancer*      Participated in several projects focused on machine learning and data science. Worked in various teams with 'full-stack responsibility' for designing, implementing and deploying solutions as well as presentation to the clients. Projects included methods from econometrics and image processing, to advanced neural nets schemes.

*10/14-07/15*      **Financial analyst**  
*Roklen Fin*      Responsibilities included covering Czech bluechip equities and preparing daily morning calls for the trading floor. Proved reliable and enhanced quick-thinking abilities and improved my global business awareness.  
Demonstrated an enormous resilience and commitment to the company working long hours while studying at a university. Furthermore, proved managerial skills by founding Roklen College - project of promoting the company around universities by organizing lectures and events.

*2013-2014*      **Head Coach of U-13 team**  
*Rugby Club Slavia Praha*      For two seasons responsible for the Under 13 team in my rugby club. The duties involved conducting season and session plans, organizing tournaments and training camps. The player base grew and the feedback was excellent from both the parents and the club management for outstanding professional performance. Enhanced my managerial skills, creativity and resilience with sometimes challenging age group.

## EDUCATION

*2011-2018*      **Charles University, Prague**  
*MSc in Finance and Banking*      Summa Cum Laude · Thesis: *Minimization of Expected Shortfall under  $\alpha$ -Levy distributions*  
**Modules:** Advanced Econometrics, Quantitative Finance I-II, Financial Markets Instruments I-II, Applied Econometrics, Robust Statistics and Econometrics, Private Equity.  
*Extra-curricular:* E-klub Economics Society

*2:1 honors* · Thesis: *The application of technical analysis on algorithmic trading*  
*BSc in Economic Theories*      **Modules:** Mathematics I-IV, Microeconomics I-II, Macroeconomics I-II, Financial Accounting, Statistics, Advanced Statistics, Econometrics I-II, Quantitative Multivariate Finance, Strategic Management

*2015-2016*      **University of Leicester**  
*MSc in Financial Mathematics*      Distinction · Thesis: *Benefits of denoising of the covariance matrix - RiskCare industry project*  
**Modules:** Financial Mathematics I+II, Financial Risk, Scientific Computing, Methods for PDE, Advanced algorithms in C++, Data mining and Neural Networks, VBA training.  
*Extra-curricular:* University Rugby Union Team, 'UoLoL' Kaggle team founder

*2007-2011*      **Johannes Kepler Grammar School, Prague**  
*Maturita*      GPA: 1.0 · *summa cum laude*  
Graduating as the top of the year from one of the most prestigious secondary school in the country. Recipient of Oundle School scholarship, participant of Mathematics Olympiads.

*9-12/2010*      **Oundle School, Oundle, United Kingdom**  
*Scholarship*      Full scholarship founded Michaelmas term in 2010. AS-level Maths, Pre-U Economics, Pre-U Government and Politics and History. Joined the rugby team and continued in Prague.  
*Extra-curricular:* Sports coaching - volunteering for local orphanage.

**COMPUTER LITERACY**

*Intermediate*      HTML, MATLAB, SQL, No-SQL DB, Django, JavaScript  
*Advanced*          L<sup>A</sup>T<sub>E</sub>X, C++, Python, R, AWS Cloud Computing, Docker

**OTHER INFORMATION**

2014 · Bloomberg BAT 600 pts, 97<sup>th</sup>%ile  
2015 · Top 3 in Czech's final of KPMG's ICC  
2016 · Winner of Deloitte Applied Analytics Challenge  
2017 · Winner of Deloitte Applied Analytics Challenge  
2017 · Best Dissertation Award – Leicester Maths dept.  
2018 · Kiwi.com SummerCamp participant

CZECH      · Fluent  
ENGLISH   · IELTS 8.5  
FRENCH    · Basic