

NATHAN ESAU

Software Developer in Toronto Area

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EXPERIENCE

Software Developer C++ .NET

Moody's Analytics

June 2017 – Present Toronto, ON

- Helped maintain AXIS, a widely used insurance software
- Collaborated with 100+ programmers using version control, adding requested features, re-structuring code, regression testing, fixing bugs
- Designed algorithms for numerical integration, stochastic simulations and valuing financial securities
- Added new graphical user interface elements using .NET framework and wrote database code for the application

Software Developer Intern C++ .NET

Moody's Analytics

Jan 2016 - Aug 2016 Toronto, ON

Research Intern R Python

Simon Fraser University

May 2015 - Aug 2015 Burnaby, BC

- Researched and evaluated various pension plan designs
- Programmed an economic scenario generator using a VAR(1) time series model
- Ported Excel Macros into "R" programming language

Statistics Intern SAS SQL

Statistics Canada

Jan 2015 - Apr 2015 Ottawa, ON

PROJECTS

Machine Learning Competition R

Simon Fraser University

Jul 2015 Burnaby, BC

- Applied machine learning methods (random forest, gradient boosting) to predict revenue earned in mobile app
- Prepared poster summarizing analysis and key dataset features

EDUCATION

B.S. in Actuarial Science

Simon Fraser University

Sep 2012 – Apr 2017 Burnaby, BC

GPA: 3.63

(From Wikipedia) Actuarial science is the discipline that applies mathematical and statistical methods to assess risk in insurance, finance and other industries and professions.

ASA Designation

Society of Actuaries

Mar 2018 Toronto, ON

- Passed investment risk mgmt exam of Society of Actuaries (May 2019)

SKILLS

- Able to Analyze, Design and Implement Data Structures
- Experience With Source Control
- Experience Working on Large Software Projects
- Experience using Object Oriented Programming
- Working Experience of C, C++
- Write Clear and Detailed Specifications and Documentation

LANGUAGES

C++	●●●●●
Python	●●●●●
R	●●●●●
Bash	●●●●●
Java	●●●●●
C#	●●●●●
Javascript	●●●●●