Ian Dardik

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Education

University of Connecticut Storrs, CT — August 2010 - May 2014
B.S. School of Engineering *Computer Science*
B.S. School of Liberal Arts and Sciences *Mathematics*
Cum GPA: 3.72/4.00

Northeastern University Boston, MA — September 2020 - Present
M.S. Computer Science
Cum GPA 4.00/4.00

Work Experience

Factset Research Systems, Manager, Senior Software Engineer — July 2014 - February 2020

- Responsible for Monte Carlo simulations, Multi-Asset Class risk, and factor-based risk models.
- Manage team responsibilities including project assignment, managing timelines, and approving code submission.
- Collaborate with stakeholders to define project scope and timelines for key clients.
- Introduced an iterator based library to the Risk Analytics code base, yielding a 10% program speedup to our core covariance matrix code path.
- Created a domain specific language for defining risk models, reducing implementation time from 2-3 months to a single day.
- Boston Engineering Internship Co-coordinator. Responsible for conducting technical interviews and co-managing the internship program.

Teaching Experience

Northeastern University
CS2800: Logic And Computation, *Teaching Assistant* — Fall 2021
CS3520: Programming In C++, *Teaching Assistant* — Fall 2020, Spring 2021

Awards

Khoury Research Apprenticeship Award — Spring 2021, Fall 2021

Programming and Modeling

C++, Java, Python, Perl, TLA$^+$, TLA$^+$ Proof System (TLAPS), Lean Prover

Papers

Formal Verification of a Distributed Dynamic Reconfiguration Protocol
Schultz W, Dardik I, Tripakis S. Formal Verification of a Distributed Dynamic Reconfiguration Protocol. arXiv:2109.11987 [cs.DC]

Design And Analysis of a Logless Dynamic Reconfiguration Protocol
Schultz W, Zhou S, Dardik I, Tripakis S. Design and Analysis of a Logless Dynamic Reconfiguration Protocol. arXiv:2102.11960 [cs.DC]