

Daniel Cartwright

Work Experience

2017–Present **Programmer**, [Layer 3 Communications](#).
Working on problems in network security with Haskell and Nix.

Activities

2016– **Hobby**, [Open Source Programming](#).
[diet](#) - First complete design and implementation of Discrete Interval Encoding Trees for compact, efficient storage/lookup of enumerable data, in Haskell
[silvi](#) - Haskell library for generating fake data
[freq](#) - Cryptanalytic frequency analysis tool used to score domain names by validity

2010–2014 **Club**, [University Interscholastic League - STEM](#), Member.
Academic competitions organised by the University of Texas at Austin.
Participated in [Mathematics](#), [Computer Science](#).
[Calculator Applications](#), [Number Sense](#), [Science](#), and Placed State in 2011, Regionals in 2012, 2013, and 2014.

Skills

Programming Haskell, Rust
Software Linux (2 yrs), git
Other Vim, L^AT_EX, NixOS