ANNIE CHERKAEV

annie.cherk@gmail.com

anniecherkaev.com
github.com/anniecherk
bitbucket.com/anniecherk

EDUCATION

2016 – present
PhD Student in CS
University of Utah

2011 – 2015
B.S. University of Utah
Undergraduate Research Scholar
Major: Mathematics
Minor: Computer Science
GPA: 3.885/4.00

Summer 2016
Recurse Center
Self directed programming retreat

COURSEWORK

Distributed Systems & OS
Compilers & Advanced Compilers
Programming Languages
Machine Learning & AI
Deep Learning Seminar
Functional Programming Studio
Advanced Algorithms
Advanced Architecture
Computer Systems & Digital Circuits

TOOLS

Languages

Python, Haskell, Racket, Go
C++, C, Scala, C# Java, Bash

Environments
Vim, Terminal, Git

CONTACT

annie.cherk@gmail.com

OPEN SOURCE PATCHES

CVE-2017-12762

Found and patched a potential buffer overflow in an ISDN driver in the linux kernel. *(Shared with Jiten Thakkar)*

GHC Bugfix #12117

Fixed a small bug in the Haskell compiler where incorrect variable shadowing produced incorrect error messages.

RESEARCH PROJECTS

Psychology Experiment DSL

A "SAT-sampler aided" domain specific language which
 1. Provides an interface for expressing constraints about the ordering of a sequence, and
 2. Finds a sequence that satisfies the constraints with the guarantee that all satisfying sequences are uniformly probable

Low Precision Machine Learning

Investigating the effects of precision & numeric representation on properties of SGD such as classification accuracy and convergence speed for datasets with different properties.

WORK EXPERIENCE

Summer 2014
Software Development Intern, Delcam, SLC, Utah

Developed a wizard for designing custom gears and a macro that got included in 'What's New' for FeatureCAM 2015 (a CAD/CAM tool), among other feature requests and bug fixes.

Other
Research Assistant:
   Visualization, Astronomy, Matrix Analysis
Teaching Assistant:
   Machine Learning, Intro to Object Oriented Programming