Darya Verzhbinsky

Education

Sept '17 – June '21
BS Computer Science, *UC San Diego*, La Jolla.
Advisor: Nadia Polikarpova

Research

June '20 – present
Undergraduate Researcher, *UC San Diego - CSE Department*, La Jolla, CA.
Advisor: Nadia Polikarpova *(Plan to submit paper)*

- Working on Hoogle+ team (http://hoogleplus.goto.ucsd.edu/)
- Building Type-Guided Top-Down Enumerative Synthesis tool for fully polymorphic and HO programs in Haskell

Sept '18 – June '19
Student Researcher, *UC San Diego - CSE Department*, La Jolla, CA.
Program: Early Research Scholars Program - research program designed for 2nd year CSE students to gain access to the Computer Science research
Advisor: Jishen Zhao

- Project targeted the exploration of various software caching mechanisms in key-value store database on SSD using C++ and Linux
- Analyzed the access patterns of various applications and aimed to identify bottlenecks of Linux's mmap() system call

Teaching

Sept '18 – Present
Computer Science Tutor, *UC San Diego - CSE Department*, La Jolla, CA.
- Tutor for:
  - Intro to Computer Science - Java + Python *(FA '18, FA '19, FA '20)* **(current)**
  - Programming Languages *(WI '20, SP '20)*
  - Basic Data Structures and OOD - Java + C *(WI '19)*
  - Intro to Discrete Mathematics *(SP '19)*
- Duties include: managing the scheduling of the tutor staff holding lab hours, grading programming assignments/exams, debugging code written by students, and answering online questions

Jun '18 – Aug '18
Assistant Teacher, *Girls Who Code*, Mountain View, CA.
- Instructed a classroom of 20 high school girls on the basics of Computer Science in Scratch, Python, Arduino C / Robotics, Web Development, Data Science, and algorithms in a 7 week Summer Immersion Program through non-profit organization Girls Who Code
- Facilitated the development of several full-stack projects
- Served as the representative of Girls Who Code at Intuit HQ

Industry

June '19 – Sept '19
Engineering Practicum Intern, *Google*, Sunnyvale, CA.
- Worked on KUnit dev team, which is a unit testing tool for the Linux Kernel (https://google.github.io/kunit-docs/third_party/kernel/docs/)
- Improved test coverage for kunit_tool by 20%
- Integrated line coverage results into kunit_tool through Prow's presubmit tool using GCOV and LCOV
- Implemented incremental coverage as part of line coverage reporting

Service

ICFP '20	Student Volunteer	*Virtual Conference*
PLDI '20	Student Volunteer	*Virtual Conference*
POPL '20	Student Volunteer	*New Orleans, LA, USA*

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