IanRiley

graduate student in computer science

about

Tulsa, OK
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github/ttowncompiled

programming

TypeScript, JavaScript,
Dart, Python, Go, Java

interests

software development, application framework development, software architecture &&
design patterns, language design, machine learning, bioinformatics && neuroinformatics
research

education

'16	University of Tulsa	graduate student in SEAT lab
	gpa: 3.857	
'13-'16	University of Tulsa	senior of computer science and mathematics
	gpa: 3.51	

experience

'15   Google MTV   SWE intern on Angular
Designed and implemented the TacticalJS data persistence library for Angular. Tactical was my first attempt at creating the MVP for a new project using formal design patterns and techniques.

'14   Google CAM   EP intern on Pinpoint
Implemented an internal UI to improve the workflow for creating pipelines of structured data for search.This was my first opportunity to think critically about end user experience and test driven design

research

'16   Red   academic research
Evaluation of Red, a bioinformatics tool for detecting repeats denovo in nucleotide sequences.

'13-'14   RFID Research Grant   academic research
Developed protocols to concisely and securely store standard, adult vaccination information on 2000 bit RFID tags.

'13   Tulsa Undergraduate Research Challenge   academic research
Worked with a small team to design a dynamic risk access control system. This system extended the spatial access control model by employing PGMs such as Bayesian networks and Markov chains for decision making.

courses taught

'16   Software Development and Industrial Practices   cs 3862
             I headed a small team of young students through the process of design-
             ing and implementing, using industrial techniques and design patterns, an
             in-browser module loader for JavaScript applications, and an online social
             media application.

'15   Software Tools and Practices   cs 3861
             I instructed a small group of young students on proper Agile development,
             Test driven design, and the use of Version Control systems as they each
             implemented their own code linter.

organizations

'14-'15   Linux Users Group   president
             Conducted several meetings and headed a few projects over the course of
             the year which included research ventures into topics such as code reusabil-
             ity, workstation efficacy, net neutrality, and even bitcoins.

'13-'15   Tulsa Web Devs   member && contributor
             Contributed to numerous local and national civic hacking events targeting
             areas such as local city organization, public health, and food equality.

'13-'15   Association of Computing Machinery   operations chair
             Facilitated over two dozen lunch and learns, covering various topics, each
             year. I have also helped organize several collegiate and civic hackathons as
             well as have spearheaded a few extended hackathons focused on building
             code confidence in freshmen programmers.