

Tyler Hunt

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PUBLICATIONS

- Strata: A Cross Media File System** 2017
Y.Kwon, H.Fingler, T.Hunt, S.Peter, E.Witchel, T.Anderson.
SOSP 2017
- Ryoan: A Distributed Sandbox for Untrusted Computation on Secret Data** 2016
T.Hunt, Z.Zhu, Y.Xu, S.Peter, E.Witchel.
OSDI 2016, Awarded Best Paper
- Earp: Principled Storage, Sharing, and Protection for Mobile Apps** 2016
Y.Xu, T.Hunt, Y.Kwon, M.Georgiev, V.Shmatikov, E.Witchel.
NSDI 2016
- Disk covering methods improve phylogenomic analyses** 2014
MS.Bayzid, T.Hunt, T.Warnow.
BMC genomics 15, S7

ACADEMIC RESEARCH GROUPS

- Operating Systems and Security** 2014-Present
Adviser: Emmett Witchel(The University of Texas at Austin)
Operating Systems, focusing on security; especially using new secure hardware.
- Phylogenetics** 2013-2014
Mentor: Tandy Warnow(The University of Texas at Austin)
Implementation and evaluation of techniques for reconstructing phylogenies given various genomic and phylogenetic data.

EDUCATION

- PhD Computer Science (in progress)** 2013-Present
The University of Texas at Austin
- BS Computer Science** 2010-2013
New Mexico State University

INTERNSHIPS

- Microsoft Research (Redmond, Washington, USA)** 2017
Adviser: Srinath Setty, Developed and implemented a protocol for agreement on a distributed ledger using SGX

Nokia Bell Labs (Murray Hill, New Jersey, USA) 2016
Adviser: Ilija Hadzic, Modified Linux Kernel, Graphics Stack (DRM) to support Cygnet (as published in FiCloud 2016)

OTHER AWARDS

University Graduate Continuing Fellowship 2017
The University of Texas at Austin

Symantec Research Labs Graduate Fellowship 2017
Symantec Research

NOTABLE COURSEWORK

Compilers (Calvin Lin)
Several projects which involved writing optimization and analysis passes for the LLVM compiler particularly: pointer analyses and data flow analyses

Database Systems (Daniel Miranker)
Relational algebra, SQL, Database design including: query optimization, large-scale storage schemes

TEACHING EXPERIENCE

TA: Mobile Computing 2016
Instructor: Emmett Witchel
Android Programming

TA: Object Oriented Programming 2014
Instructor: Glen Downing
Object oriented programming, C++

TA: Software Engineering 2013-2014
Instructor: Glen Downing
Student projects ranged from toy problems designed to teach software development tools to a full web deployment project (Django)

TA: Software Design 2013-2014
Instructor: Don Batory
Software engineering principles, UML, automated design tools

REFERENCES

Available upon request