Elijah Lloyd Grubb

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RESEARCH INTERESTS

Security, Privacy, and Cryptography.

EDUCATION

Ph.D. Computer Science   2018 – Present
University of Maryland   *College Park, MD*

B.Sc. Computer Science   2014 – 2018
University of Utah   *Salt Lake City, UT*

RESEARCH EXPERIENCE

Visiting Ph.D. Student   September 2019 – December 2019
IMDEA Software Institute (*with Prof. Dario Fiore*)   *Madrid, Spain*

Implementation and experimentation of zero-knowledge proof systems, in particular LegoSNARK.

Graduate Research Assistant   May 2019 – Present
University of Maryland (*with Prof. Jonathan Katz*)   *College Park, MD*

Research into lattice-based NIZKs and the theoretical lower bounds of privacy-preserving data structures.

Undergraduate Research Assistant   September 2017 – August 2018
University of Utah, School of Computing (*with Prof. Eric Eide*)   *Salt Lake City, UT*

Member of the Flux Research Group working on compiler testing related to the Xsmith project and on bringing Docker support to Emulab. Publication at CSET'18.

Undergraduate Research Assistant   September 2016 – May 2017
University of Utah, School of Computing (*with Prof. Feifei Li*)   *Salt Lake City, UT*

Member of the Data Group working on the collection and analysis of large amounts of spatio-temporal data in the STORM and Compass projects.

PUBLICATIONS

Supporting Docker in Emulab-Based Network Testbeds.
D. Johnson, **E. Grubb**, E. Eide.
In *Proceedings of the 11th USENIX Workshop on Cyber Security Experimentation and Test* (**CSET'18**), Baltimore, MD, August 2018.

PROFESSIONAL EXPERIENCE

Software Engineering Intern   May 2017 – August 2017
Qualtrics   *Provo, UT*

Technology Summer Analyst June 2016 – August 2016
Goldman Sachs *Salt Lake City, UT*

Software Engineer Intern March 2015 – May 2016
Spillman Technologies *West Valley City, UT*

TEACHING EXPERIENCE

Teaching Assistant

- **Cryptology** (University of Maryland – CMSC456), Spring 2019
- **Organization of Programming Languages** (University of Maryland – CMSC330), Fall 2018
- **Database Systems** (University of Utah – CS5530), Spring 2017

AWARDS & HONORS

- 6× Dean's List, University of Utah
- Top 4 Finish, Internal Goldman Sachs Hackathon, Summer 2016
- 3rd Place, University of Utah Hackathon co-hosted by U of U ACM, Fall 2015
- Honors at Entrance Academic Scholarship, University of Utah, Fall 2014
- AP Scholar with Distinction, The College Board, Summer 2014
- Eagle Scout, Boy Scouts of America, Spring 2014