Chike Abuah

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(a) Interests

Data Privacy, Differential Privacy, Software Verification, Type Systems, Program Analysis.

(b) Education

University of Vermont, Burlington, VT; Computer Science; Ph.D., 2021
University of Massachusetts Lowell, Lowell, MA; Computer Science; M.S., 2018
Grinnell College, Grinnell, IA; Computer Science; B.A., 2014

(c) Employment History

2019–now: **Research Assistant**, CS Department - UVM , Burlington, VT

2016–2018: **Research Assistant**, CS Department - UML , Lowell, MA

2017: **Course Instructor**, CS Faculty - UML , Lowell, MA

2017: **Teaching Assistant**, CS Department - UML , Lowell, MA

2014–2016: **Full Stack Software Engineer**, ListenFirst Media LLC , NYC, NY

2013: **Web Development Intern** , Fisdap/Headwaters Software, Minneapolis, MN

2012–2014: **Web Developer**, Web Services - Grinnell College, Grinnell, IA

2012–2013: **System Administrator**, CS/IT Department - Grinnell College, Grinnell, IA

2011–2014: **Teaching Assistant/Mentor**, CS Department - Grinnell College, Grinnell, IA

2011: **Research Assistant**, CS Department - Grinnell College, Grinnell, IA

(d) Publications

1. **Chike Abuah**, David Darais, Joe Near. A Lightweight Static Analysis for Differential Privacy. Under conference review.
2. **Chike Abuah**, Alex Silence, David Darais, Joe Near. A General-Purpose Dynamic Analysis for Differential Privacy. *Scheduled to appear at the 34th IEEE Computer Security Foundations Symposium*, June 2021.
3. Matías Toro, David Darais, **Chike Abuah**, Joe Near, Federico Olmedo, Éric Tanter. Contextual Linear Types for Differential Privacy. Under journal review.
4. Joe Near, David Darais, **Chike Abuah**, Tim Stevens, Pranav Gaddamadugu, Lun Wang, Neel Somani, Mu Zhang, Nikhil Sharma, Alex Shan, Dawn Song. Duet: An Expressive Higher-order Language and Linear Type System for Statically Enforcing Differential Privacy. In: *Proceedings of the ACM on Programming Languages: Object-oriented Programming, Systems, Languages, and Applications (OOPSLA)*, October 2019. **«ACM SIGPLAN Distinguished Paper Award»**