Anders Miltner
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11 Dickinson Street
Apt 11
Princeton, NJ 08544

Education:

University of Pennsylvania – Philadelphia, PA

Masters in Mathematics; May 2013

Cumulative G.P.A.: 3.88

BSE in Computer Science and Math; May 2013

Cumulative G.P.A.: 3.66

Dean's List 2010-2013

Princeton University – Princeton, NJ

Computer Science Doctoral Candidate; Expected May 2020

Cumulative G.P.A.: 3.94

Masters in Computer Science; May 2017

Research Experience:

Princeton University, Princeton, NJ 08544

Graduate Researcher (September 2015-Present)

- Added an extension to the MYTH synthesis system, which accounts for invariants in library functions
- Developed a synthesis procedure for bijective lenses
- Proved correctness of the bijective lens synthesis procedure
- Assisted in development of a synthesis procedure for quotient lenses
- Integrated our synthesis procedures with Boomerang, a bidirectional programming language

University of Pennsylvania, Philadelphia, PA 19104

Undergraduate Researcher (June 2011-January 2012)

- Implemented the TrustForge system
- Used in the DARPA VehicleForge project

Teaching Experience:

Princeton University, Princeton, NJ 08544

Teaching Assistant (September 2016-May 2017)

- Algorithms and Data Structures (COS 226) Feb 2017-May 2017
- Functional Programming (COS 326) Sept 2016-Jan 2017

University of Pennsylvania, Philadelphia, PA 19104

Teaching Assistant (January 2011 – December 2012)

- Mathematical Foundations of Computer Science (CIS 160) Jan 2012 – Dec 2012
- Programming Languages and Techniques 2 (CIS 121) Jan 2011 – Dec 2011

Professional Experience:

Microsoft, Redmond, WA 98052

Software Development Engineer (July 2013-June 2015)

- On TFS Work Item Tracking team
- Worked on a client object model for a Typescript client
- Worked on all levels of the backend stack
- Developed REST APIs, and the models and routes for those APIs

Ampush Media, San Francisco, CA 94103

Engineering Intern (June 2012-August 2012)

- Replaced a heuristic solution to classification with a machine learning based one
- Broke a single service into microservices

Awards

- First place 2017 ICFP Student Research Competition – Graduate Category

Service

- Graduate Board Game Club Secretary (2016-Present)
- PLDI 2017 Artifact Evaluation Committee
- Computer Science Graduate Committee (2016-2017)

Publications

- *Synthesizing Bijective Lenses*. Anders Miltner, Kathleen Fisher, Benjamin C. Pierce, David Walker, Steve Zdancewic. To appear in POPL 2018

Volunteer Experience

Prison Teaching Initiative (January 2016-Present)

- 2 mathematics classes, introduction to algebra and remedial math
- Provided tutoring to give additional reinforcement for students needing extra help
- Began development of a programming course for students without access to computers