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Education

Portland State University Portland, OR

Ph.D. IN COMPUTER SCIENCE 2012 - present

University of Central Florida

Orlando, FL

B.S. IN INFORMATION SYSTEMS TECHNOLOGY

2005 - 2009

- Minor in Computer Science
- University Honors

Skills

Programming Agda, Haskell, Javascript, Ruby

Languages English, German

Experience

Portland State University Portland OR

GRADUATE RESEARCH ASSISTANT Aug 2012 - present

- · Generic dependently typed programming over type theoretic models using Agda.
- Formal verification of the termination of programming language semantics using Agda.
- Implementation of a dependently typed language (named Ditto) using Haskell.
- NSF/CISE/CCF grant #1320934.

Engine Yard San Francisco, CA

SOFTWARE ENGINEER May 2009 - Aug 2012

- · Worked on a cloud hosting platform on top of Amazon AWS.
- · Ruby web application programming using Ruby on Rails and Sinatra.
- · Ruby system automation using Chef.

IZEA Orlando, FL

SOFTWARE ENGINEER Jan 2007 - Aug 2008

- Worked on a social media advertising platform.
- Ruby web application programming using Ruby on Rails.

Bear Den Designs Jacksonville, FL

· Worked on medical resident management software.

• Ruby web application programming using Ruby on Rails.

Publications

Typed Internal DSL

SOFTWARE ENGINEER

Generic Lookup and Update for Infinitary Inductive-Recursive Types

PROCEEDINGS OF THE 1ST INTERNATIONAL WORKSHOP ON TYPE-DRIVEN DEVELOPMENT

Larry Diehl & Tim Sheard

Larry Diehl & Tim Sheard

Larry Diehl & Tim Sheard

May 2006 - Jan 2007

2016

2014

Hereditary Substitution by Canonical Evaluation (SbE)

TECH REPORT

Generic Constructors and Eliminators from Descriptions: Type Theory as a Dependently

PROCEEDINGS OF THE 10TH ACM SIGPLAN WORKSHOP ON GENERIC PROGRAMMING

2014

LARRY DIEHL · RÉSUMÉ AUGUST 30, 2016

Leveling Up Dependent Types: Generic Programming over a Predicative Hierarchy of

Larry Diehl & Tim Sheard

PROCEEDINGS OF THE 2013 ACM SIGPLAN WORKSHOP ON DEPENDENTLY-TYPED PROGRAMMING

Verified Stack-Based Genetic Programming via Dependent Types

Larry Diehl & Tim Sheard

PROCEEDINGS OF AAIP 2011 4TH INTERNATIONAL WORKSHOP ON APPROACHES AND APPLICATIONS OF INDUCTIVE PROGRAMMING

2011