Chirag Bharadwaj

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EDUCATION

09/2017- Princeton University, Princeton, NJ
 Master of Science, MSE, Computer Science GPA: 3.58/4.00
 08/2014- Cornell University, Ithaca, NY
 Bachelor of Science, BSc, Computer Science
 Minor: Electrical and Computer Engineering

INDUSTRY EXPERIENCE

The Goldman Sachs Group, Inc., Jersey City, NJ
 Summer Analyst, Technology Infrastructure

 Created and tested back-end of a RESTful API for MySQL queries in the cloud using Dropwizard, Jackson, Jersey, JDBC, Guava/Guice
 Created multithreaded authentication system with pools/streams

 The Bank of Tokyo-Mitsubishi, Ltd., New York, NY
 Technology Intern, Salesforce Development

 Used Salesforce technology to integrate network's CRM software
 Developed sandbox environment and scripts for QA workflow

RESEARCH EXPERIENCE

12/2017- Princeton University, Princeton, NJ PI: Margaret Martonosi Summer Research Assistant; Graduate Research Assistant

 Estimated the performance of architectures in specialized hardware accelerators via (pre-RTL) LLVM compiler analyses

 08/2016- Cornell University, Ithaca, NY PI: Adrian Sampson Undergraduate Research Assistant

 Created LLVM emitter for CUDA programs to automate real-time acceleration of architectures with tandem CPU/GPU control

PUBLICATIONS

Theses and Dissertations

- 1. **C Bharadwaj**. *TBD*. Princeton University, in progress.
- 2. **C Bharadwaj**. *LambdaLab: Interactive* λ -calculus for Learning. Cornell University.

Non-archival Proceedings

- 1. **C Bharadwaj**, TJ Ham, O Matthews, JL Aragon, MR Martonosi. *Pythia: Measuring the Acceleratability of Specialized Accelerators*. To appear in SRC TECHCON, 09-2018.
- 2. **C Bharadwaj**, SD Gore. *Reddit Comments via Generative Grammar Modelling*. Cornell University archives, 05-2017.
- 3. SK Somayyajula, **C Bharadwaj**. *Refinery: Implementing Constructive Logics in OCaml*. Cornell University archives, 12-2016.

Citizenship

United States of America

Spoken Languages

English, Spanish, Mandarin

TECHNICAL SKILLS

Programming and Scripting

Java, Kotlin, C, C++, OCaml Python, Ruby, BASH, awk, sed

Verification and Solvers

Coq, NuPRL, SystemVerilog

Web Development

HTML5, CSS/SASS, JavaScript Dropwizard, JDBC, SQL, Guice Jekyll, Ruhoh, Nanoc

Hardware, Assembly, ISAs

CUDA, LLVM, ARM, MIPS, RISCV Verilog, Quartus, ModelSim GTKWave, SPICE, Cadence

Tools and Libraries

L'TEX, Markdown Eclipse, IntelliJ, CLion, vim CMake, Makefile, Ninja, Gradle Git, Subversion, Mercurial GDB, valgrind, gprof Lex, YACC, Flex, Bison

ACADEMIC TEACHING (TA)

Digital Logic Design (1 sem.)
Computer Organization (4 sems.)
Functional Programming (2 sems.)
Discrete Mathematics (1 sem.)

ACTIVITIES

Princeton University

Political Engagement Initiative Asian-American Student Assn. Graduate Engineering Council Splash! at Princeton NJ State Science Olympiad

Cornell University

Women and URMs in Computing Association of CS Undergraduates Freshman Orientation Leadership Engineering Peer Advising Splash! at Cornell NY State Science Olympiad Cornell Piano Society