Chirag Bharadwaj

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EDUCATION

06/2019 (exp.)	**Princeton University**, Princeton, NJ
	MSE, Computer Science GPA: −/4.00
	Advisor: TBD
05/2017	**Cornell University**, Ithaca, NY
	BSc, Computer Science GPA: 3.41/4.00
	Thesis: Interactive λ-calculus for Learning
	Minor in Electrical and Computer Engineering

WORK EXPERIENCE

06/2016– 08/2016   **The Goldman Sachs Group, Inc.**, Jersey City, NJ
Summer Analyst, *Technology Infrastructure*
- Created/tested back-end of a RESTful API for software in cloud services using Dropwizard, Jackson, Jersey, JDBC, and Guava
- API abstracted/cached MySQL queries to prevent ad-hoc changes
- Created multithreaded authentication system with pools/streams

06/2015– 08/2015   **The Bank of Tokyo-Mitsubishi, Ltd.**, New York, NY
Technology Intern, *Salesforce Development*
- Used Salesforce technology to integrate CRM software in cloud
- Developed sandbox environment and script for SIT/UAT workflow
- Co-led group of 5 interns to create wireframes for ASP.NET forms

RESEARCH EXPERIENCE

09/2017– present   **Princeton University**, Princeton, NJ
Graduate Research Assistant   PI: David P. Walker
- Working on extending NetKAT with partially-ordered priorities

08/2016– 05/2017   **Cornell University**, Ithaca, NY
Undergraduate Research Assistant   PI: Adrian L. Sampson
- Generated LLVM IRs equivalent in behavior to complex NVIDIA CUDA programs for GPUs, for use in separable microarchitectures

TEACHING EXPERIENCE

09/2017– present   **Princeton University**, Princeton, NJ
Graduate Teaching Assistant   (1 semester)

01/2015– 05/2017   **Cornell University**, Ithaca, NY
(Head) Undergraduate Teaching Assistant   (5 semesters)

SOFTWARE PROJECTS

- redditcommentor: Using generative grammars to model Reddit comments
- refined-logic: Implementing refinement logics in OCaml
- PokéSnowdown: Winter-themed single-player spin-off of Pokémon Showdown

PERSONAL

Pronunciation: /ʃɪɹɑːɡ/
Citizenship: United States

LINKS

Website: chiragbharadwaj.com
GitHub: chiragbharadwaj
LinkedIn: chiragbharadwaj

SKILLS

Programming and Scripting
Java, Kotlin, C, OCaml, Coq
Python, Ruby, BASH, awk, sed

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

Hardware, Assembly, and ISAs
CUDA, LLVM
ARM, MIPS, RISC-V, LC-3
Verilog, GTKWave, Quartus
Logisim, Fritzing, SPICE

Tools and Libraries
LaTeX, Markdown
Eclipse, IntelliJ, vim
Makefile, Maven, Gradle
Git, Subversion
GDB, valgrind, gprof
Lex, YACC, Flex, Bison

LANGUAGES

English (native)
Kannada (bilingual)
Spanish (conversational)
Japanese (elementary)